

FULL PRODUCT CATALOGUE



Specialists in the design & manufacture of
temperature measuring equipment since 1983

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Assured accuracy for life
**THERMA 20 HIGH ACCURACY
THERMOMETER**
GREAT VALUE page 16

Ideal for chefs' pockets
MICRO POCKET THERMOMETER
NEW page 24



Must have for any barista
6 models available
DIGITAL MILK THERMOMETER
NEW page 27

Capture multiple logging
processes in a single download
**THERMADATA®
THERMISTOR LOGGER**
NEW page 46



Our latest software solution,
to improve HACCP procedures
THERMADATA® HUB SOFTWARE
NEW pages 62 & 63

Ideal for HACCP procedures
**THERMAPEN® IR
THERMOMETER - RED**
NEW COLOUR page 89



HACCP
These products help you achieve
a HACCP compliant system

CATERING & FOOD PROCESSING



THERMOMETERS FOR FOOD

Monitoring food temperatures is a daily requirement for any food business to ensure customer safety. Finding the best thermometer for your application will help to make these checks faster, easier and more accurate.

SAFE FOOD TEMPERATURES

All individuals responsible for food preparation should be aware of the Danger Zone. This is the optimal temperature range where harmful bacteria thrive, between 8 and 63 °C.

When storing, cooking and serving food, it's essential to prevent food from entering the Danger Zone for long periods, or it must be thrown away. Please visit our website for more information on food safety temperatures.

HACCP TEMPERATURES

Any food business in the UK is legally required to have a food safety management system that is based on the principles of HACCP (Hazard Analysis & Critical Control Point). Within this, there are several key areas where food temperatures should be monitored to reduce the risk of harmful bacteria:

Deliveries - monitoring the temperature of chilled incoming goods

Food storage - ensuring cold foods do not enter the danger zone

Food preparation - cooking or reheating food to a safe temperature

Food service - hot holding food at safe temperatures and for the correct length of time

THERMOMETERS FOR HACCP

We offer a wide range of food thermometers and probes suitable for different applications, budgets and requirements. The main features to consider when choosing a thermometer are:

Accuracy - the potential margin for error

Speed - how many seconds a reading will take

Range - the highest and lowest temperatures required

Resolution - the number of decimal places on the display

It's also important to select a design that is functional for your applications. For harsh food processing environments, it can be useful to have a robust and waterproof casing. For busy restaurants, a hold function can make taking recordings easier.



Products with this icon help you achieve a HACCP compliant system

THERMAPEN® ONE THERMOMETER

- Reaches temperature in just ONE second
- 5-year guarantee
- Waterproof to IP67
- Auto-intelligent backlit display

The Thermapen ONE is the ultimate kitchen thermometer. Quick, accurate and easy-to-use, measuring temperature over the range of -49.9 to 299.9 °C.

Unrivalled speed and accuracy

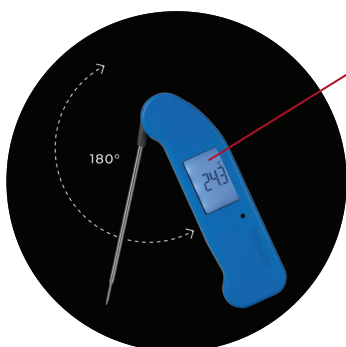
The Thermapen One is currently the fastest instant-read thermometer on the market, reading temperatures in just one second. Accurate to ± 0.3 °C (-19.9 to 119.9 °C) ± 0.4 °C (-49.9 to 199.9 °C) otherwise ± 1.0 °C.

Designed for kitchen professionals

Designed using industry leading thermocouple technology, the Thermapen One features a patented self-rotating display that can be used with either hand in any position. Its intelligent backlit display is improved with a cool white LCD that senses varying light levels, automatically turning the backlight on and off. The unit also comes with a motion-sensing sleep mode that maximises battery life by automatically turning the device on and off when set down or picked up. Powered by a single AAA battery, the device has a life expectancy of 2,000 hours in normal use, without the backlight. Both low battery (icon) and open circuit indication are displayed, when applicable. The casing is washable and includes Biomaster product protection that reduces bacterial growth.

The Thermapen One is waterproof to IP67 and incorporates a reduced tip, stainless steel, penetration probe that conveniently folds back through 180° into the side of the instrument when not in use.

Each Thermapen One is supplied with a FREE traceable certificate of calibration and 5-year guarantee



Auto-Intelligent
backlight - improved
LCD in cool white

- Improved 0.3 °C accuracy



model available
see page 55

Patented auto-rotating display



ONE Second response time due to
improved thermocouple technology

Order code	Description
235-407	Thermapen One - grey
235-417	Thermapen One - white
235-427	Thermapen One - yellow
235-437	Thermapen One - green
235-447	Thermapen One - red
235-457	Thermapen One - blue
235-477	Thermapen One - black
235-487	Thermapen One - orange
235-497	Thermapen One - pink
235-507	Thermapen One - purple
830-130	Thermapen pouch - charcoal grey
830-131	Thermapen pouch - beige
830-140	Thermapen holster - charcoal grey
830-141	Thermapen holster - beige
830-455	Silicone cover - glow in the dark
830-470	Thermapen magnetic band with lanyard
832-002	Stainless steel wall bracket

NEW ACCESSORIES see page 7



Specification	Thermapen One
Range	-49.9 to 299.9 °C
Resolution	0.1 °C or 1 °C - user selectable
Accuracy	± 0.3 °C (-19.9 to 119.9 °C) ± 0.4 °C (-49.9 to 199.9 °C) otherwise ± 1.0 °C
Battery	1 x 1.5 volt AAA
Battery life	2,000 hours (without backlight)
Sensor type	K thermocouple
Display	14.3 mm (horizontal) & 11.85 mm (vertical) LCD
Dimensions	19.3 x 48.2 x 156.2 mm
Weight	115 grams
FREE traceable certificate of calibration included	

THERMAPEN® CLASSIC THERMOMETER

- Over 50 % faster than traditional probes
- Reaches temperature in just 3 seconds
- FREE traceable certificate of calibration
- Lightweight and easy-to-use

The Thermapen Classic thermometer incorporates a large digital display with a precise read-out of temperature over the range of -49.9 to 299.9 °C with a 0.1 °C resolution and an accuracy of ± 0.4 °C. The resolution can be switched to 1 °C, if required, via a switch in the battery compartment. The thermometer will power off automatically after ten minutes, maximising battery life. This feature can be disabled if not required.

The casing is washable and includes Biomaster product protection that reduces bacterial growth and the ergonomic rubber seal minimises the risk of the ingress of water, dust or food. The Thermapen Classic also benefits from being splashproof. The true temperature of a product can be tested in just three seconds. The Thermapen Classic incorporates a reduced tip, stainless steel, food penetration probe ($\varnothing 3.3 \times 115$ mm) that conveniently folds back through 180° into the side of the instrument when not in use.

Both low battery (icon) and open circuit indication are displayed, when applicable. Each Thermapen is powered by two lithium coin cell batteries with a minimum life expectancy of 1,500 hours.



- **Stainless steel wall bracket (832-002)**
Stores the Thermapen safely when not in use. Keyhole slot for hanging (screws not supplied)
Measures 27 x 58 x 115 mm



NEW ACCESSORIES see opposite page

- Thermapen pouch in charcoal grey or beige (830-130/830-131)
- Thermapen holster in charcoal grey or beige (830-140/830-141)
- Thermapen magnetic band with lanyard (830-470)

Order code Description

231-217	Thermapen Classic - white
231-227	Thermapen Classic - yellow
231-237	Thermapen Classic - green
231-247	Thermapen Classic - red
231-257	Thermapen Classic - blue
830-130	Thermapen pouch - charcoal grey
830-131	Thermapen pouch - beige
830-140	Thermapen holster - charcoal grey
830-141	Thermapen holster - beige
830-260	Protective silicone cover
830-265	Silicone cover - glow in dark
830-470	Thermapen magnetic band with lanyard
832-002	Stainless steel wall bracket



Specification Thermapen Classic

Range	-49.9 to 299.9 °C
Resolution	0.1 °C or 1 °C - user selectable
Accuracy	± 0.4 °C (-49.9 to 199.9 °C) otherwise ± 1 °C
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,500 hours
Sensor type	K thermocouple
Display	14.5 mm LCD
Dimensions	19 x 47 x 153 mm
Weight	97 grams

FREE traceable certificate of calibration included

PRO-SURFACE THERMAPEN® THERMOMETER

- Pivoting probe & swivel head for perfect contact
- Ideal for grills & hot plates

The Pro-Surface Thermapen thermometer measures the temperature of grills, hotplates, and other surfaces over the range of -49.9 to 299.9 °C with a user-selectable resolution of 0.1 or 1 °C with an accuracy of ± 1 °C / 1 % of reading.

Simply open the probe and take the reading - the pivoting probe and swivel tip ensure perfect surface contact and high accuracy measurement. The Pro-Surface includes a FREE traceable certificate of calibration.

The Thermapen body is splashproof. For high temperature use you can order a protective silicone rubber cover for added thermal and drop protection.



● Protective silicone cover

Protect your instrument against accidental damage by fitting a protective silicone cover (830-260).



Order code	Description
231-279	Pro-Surface Thermapen
830-260	Protective silicone cover

Specification	Pro-Surface Thermapen
Range	-49.9 to 299.9°C
Resolution	0.1 °C or 1 °C - user selectable
Accuracy	± 0.4 °C (-49.9 to 149.9 °C) or ± 1 %
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,500 hours
Sensor type	K thermocouple
Display	14.5 mm LCD
Dimensions	19 x 47 x 153 mm
Weight	97 grams

FREE traceable certificate of calibration included

THERMAPEN® ACCESSORIES

● NEW Magnetic band with lanyard

Keep your Thermapen safe and on hand in the kitchen with a magnetic attachment for easy storage on metal surfaces (830-470).



NEW



Holster 75 x 190 mm
(830-140/141)

● NEW Thermapen pouches & holsters

Embossed with the Thermapen logo, these accessories combine style and durability. For more details visit our website.



Pouch 40 x 75 x 170 mm
(830-130/131)

Order code	Description
830-130	Thermapen pouch - charcoal grey
830-131	Thermapen pouch - beige
830-140	Thermapen holster - charcoal grey
830-141	Thermapen holster - beige
830-260	Protective silicone cover
830-265	Silicone cover - glow in the dark
830-470	Thermapen magnetic band with lanyard
832-002	Stainless steel wall bracket

THERMALITE® DIGITAL THERMOMETER

- CalCheck 0.0 °C function
- ±0.5 °C accuracy
- Waterproof to IP66
- FREE traceable certificate of calibration

The ThermoLite digital thermometer is lightweight and easy to use, ideal for measuring the temperature of food and semi-solid materials.

The instrument displays temperature over the range of -40 to 300 °C with a 0.1 °C/°F resolution and an accuracy of ±0.5 °C (-10 to 100 °C). Each ThermoLite also incorporates a CalCheck function that allows the user to verify the accuracy of the thermometer at any time.

The thermometer weighs only 67 grams and features a clear, easy-to-read LCD display with an open circuit 'Err' and battery replacement indication. The ThermoLite's auto power-off facility turns the instrument off automatically after ten minutes, maximising battery life and is supplied complete with a FREE traceable certificate of calibration.

Each unit is supplied with a protective probe cover and is waterproof to IP66. The case includes Biomaster product protection which reduces opportunities for bacterial growth.

The Ø3.3 x 85 mm stainless steel probe has a Ø2.0 x 14 mm reduced tip which provides faster and more accurate readings.



- **CalCheck 0.0 °C function**
The ThermoLite features a CalCheck 0.0 °C function that allows the user to verify the accuracy of the thermometer at any time, giving confidence that measurements are accurate.



- **Each unit is supplied with a protective probe cover**

- **Reduced tip for faster and more accurate readings**



Specification	ThermoLite
Range	-40 to 300 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C (-10 to 100 °C) ±2.5 °C (200 to 300 °C) ±1.5 °C otherwise
Battery	3 volt CR2032 lithium coin cell
Battery life	2,000 hours
Sensor type	Thermistor
Display	25 x 23.5 mm LCD
Dimensions	22 x 36.3 x 223 mm
Probe dimensions	Ø3.3 x 85 mm (probe tip Ø2.0 x 14 mm)
Weight	67 grams
FREE traceable certificate of calibration included	

Order code	Description
810-305	ThermoLite thermometer

TEMPTEST® 1 & 2 THERMOMETERS

- Patented, automatic 360° rotational display
- Fast response probe, reaches temperature in just 3 seconds
- FREE traceable certificate of calibration
- Intelligent backlit display

These TempTest thermometers incorporate a large, easy-to-read digital display, with a precise read-out of temperature over the range of -49.9 to 299.9 °C with a 0.1 °C/°F resolution and an accuracy of ±0.4 °C (-49.9 to 199.9 °C). The thermometers will power off automatically after ten minutes maximising battery life, this feature can be disabled if not required.

The thermometers are housed in a waterproof IP67 case with an ergonomic rubber seal, both include Biomaster product protection to reduce bacterial growth. As well as being waterproof, the true temperature of a product can be measured in just three seconds.

Both low battery (icon) and open circuit indication are displayed, when applicable. Each TempTest is powered by two AAA batteries with a minimum life expectancy of 5,000 hours in normal use without the backlight.

Each TempTest 1 thermometer is supplied with a permanently attached, pointed stainless steel food penetration probe (Ø3.3 x 80 mm) with fast response tip and FREE holster/wall bracket for safe and secure storage.



model available
see page 57



OPTIONAL ACCESSORIES:

- Protective silicone cover. Various colours available - see below
- Anti-bacterial wipes - see page 40



Order code	Description
221-910	TempTest 1 thermometer
222-910	TempTest 2 - penetration probe
830-431	Protective silicone cover - white
830-432	Protective silicone cover - yellow
830-433	Protective silicone cover - green
830-434	Protective silicone cover - red
830-435	Protective silicone cover - blue
830-437	Protective silicone cover - black

Specification	TempTest 1 & 2
Range	-49.9 to 299.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Battery	2 x 1.5 volt AAA
Battery life	5,000 hours (normal use, without backlight)
Sensor type	K thermocouple
Display	11 mm LCD
Dimensions	TempTest 1 - 17 x 47 x 200 mm (inc. probe) TempTest 2 - 17 x 47 x 120 mm
Weight	TempTest 1 - 105 grams TempTest 2 - 140 grams
FREE traceable certificate of calibration included	

THERMAMITE® THERMOMETER & PROBE

- Simple one-button operation
- FREE traceable certificate of calibration
- Includes Biomaster product protection
- 2-year guarantee

The Thermamite thermometer offers accuracy, flexibility and ease of use, coupled with the durability and reliability that is required by the food and catering industry in helping to meet today's food hygiene legislation.

The thermometer incorporates an easy-to-read, LCD display with a precise read-out of temperature over the range of -50 to 300 °C with a 1 °C resolution. Low battery and open circuit indication are also displayed. The unit will power-off automatically after ten minutes, maximising battery life.

The instrument is housed in an ergonomic, robust ABS case that includes Biomaster product protection which reduces bacterial growth. Each thermometer is supplied with a permanently attached, pointed stainless steel food penetration probe (Ø3.3 x 100 mm) and a 500 mm PVC lead.

- **Protective silicone cover**
The Thermamite is water-resistant to IP65 when used in conjunction with this cover. Protects from accidental damage. Various colours are available - see page 14.



- **Stainless steel wall bracket & cover (832-050)**
The wall bracket stores your Thermamite safely away when not in use. Keyhole slot for hanging (screws not supplied).



Order code	Description
261-010	Thermamite - white
261-020	Thermamite - yellow
261-030	Thermamite - green
261-040	Thermamite - red
261-050	Thermamite - blue
830-221	Protective silicone cover - white
832-050	S/steel wall bracket & cover

Specification	Thermamite
Range	-50 to 300 °C
Resolution	1 °C
Accuracy	±1 °C / 1 % of reading
Battery & life	3 x 1.5 volt AAA - 10,000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	160 grams
FREE traceable certificate of calibration included	

FOOD CHECK THERMOMETER & PROBE

- Ideal for HACCP procedures
- FREE traceable certificate of calibration
- Temperature range -49.9 to 299.9 °C
- Meets the European Standard EN 13485

The Food Check is designed specifically for the food and catering professional who wishes to purchase an economically priced digital thermometer. The Food Check thermometer will measure temperature quickly and accurately when monitoring cooked and chilled foods as part of HACCP and health and safety procedures.

The thermometer is housed in a user-friendly ABS case that includes Biomaster product protection which reduces bacterial growth. The Food Check features a large, easy-to-read, LCD display with open circuit and low battery indication. The instrument incorporates a simple-to-use on/off push-button and is powered by three AAA batteries that give a minimum of five years of battery life. The Food Check will power off automatically after ten minutes, maximising battery life.

Each Food Check is supplied with a permanently attached food penetration probe with a 130 mm stainless steel stem and 500 mm PVC lead. This is the ideal choice for routine food inspections.

OPTIONAL ACCESSORIES:

- Stainless steel wall bracket & white silicone cover (832-050)
- Anti-bacterial wipes - see page 40



- **Protective silicone cover**
The Food Check is water-resistant to IP65 when used in conjunction with this cover. Protects from accidental damage. Various colours are available - see page 14.



Order code	Description
221-018	Food Check - white
221-028	Food Check - yellow
221-038	Food Check - green
221-048	Food Check - red
221-058	Food Check - blue
830-221	Protective silicone cover - white
832-050	S/steel wall bracket & cover

Specification	Food Check
Range	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy	±0.4 °C (-49.9 to 149.9 °C) otherwise ±1 %
Battery & life	3 x 1.5 volt AAA - 10,000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	160 grams
FREE traceable certificate of calibration included	

CATERTEMP® THERMOMETER & PROBE

- High system accuracy $\pm 0.4^{\circ}\text{C}$ & 0.1°C resolution
- FREE traceable certificate of calibration
- Includes Biomaster product protection
- Display hold function

The CaterTemp professional digital thermometer is designed with the catering and food processing industry in mind and incorporates a combination of proven circuitry and durability. The CaterTemp thermometer is housed in a robust ABS case that includes Biomaster product protection to reduce bacterial growth.

The CaterTemp measures temperature over the range of -49.9 to 299.9°C with a resolution of 0.1°C . The instrument features a bright, easy-to-read LCD, displaying open circuit and low battery indication, when applicable.

The thermometer is powered by three AAA batteries that give a minimum of five years of battery life. The CaterTemp will power off automatically after ten minutes, maximising battery life.

Each thermometer is supplied with a permanently attached food penetration probe with a 130 mm pointed, stainless steel stem and one metre coiled PU lead.

CATERING



OPTIONAL ACCESSORIES:

- Stainless steel wall bracket & black silicone cover (832-053)
- Protective silicone cover - black (830-227)



Order code	Description
221-046	CaterTemp
830-227	Protective silicone cover - black
832-053	S/steel wall bracket & cover

Specification	CaterTemp
Range	-49.9 to 299.9°C
Resolution	0.1°C
Accuracy	$\pm 0.4^{\circ}\text{C}$ (-49.9 to 149.9°C) otherwise $\pm 1\%$
Battery & life	3 x 1.5 volt AAA - 10,000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	175 grams
FREE traceable certificate of calibration included	

CATERTEMP® METAL THERMOMETER

- Our most durable thermometer yet
- Supplied complete with heavy duty penetration probe
- FREE traceable certificate of calibration
- Waterproof to IP67

The CaterTemp Metal hand held thermometer is housed in a robust extruded aluminium waterproof case, offering IP67 protection, with a white powder coated finish. The instrument incorporates the latest microprocessor technology with improved durability, designed for reliability and ease of use in day-to-day catering and food processing applications.

The CaterTemp Metal thermometer measures temperature over the range of -49.9 °C to 299.9 °C and features a large, easy-to-read, LCD display. The unit also incorporates an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life.

Each CaterTemp Metal thermometer is supplied with a permanently attached, water-resistant, heavy-duty, food penetration probe with a Ø3.3 x 130 mm stainless steel stem and one metre PU coiled lead. The probe is both strong, versatile and suitable for a variety of applications including liquids, semi-solids and granular materials.



CATERING

- **Stainless steel wall bracket (832-789)**
Designed to store your CaterTemp Metal safely - wherever you need it. Provides easy wall hanging. Dimensions: 122 x 67 x 44 mm
Screws are not supplied.



Order code	Description
221-800	CaterTemp Metal
832-789	Stainless steel wall bracket

Specification	CaterTemp Metal
Range	-49.9 °C to 299.9 °C
Resolution	0.1 °C
Accuracy	±0.4 °C (-49.9 to 149.9 °C) or otherwise ±1 %
Battery & life	3 x AAA - 10,000 hours @ 25°C
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	37 x 61.4 x 177 mm
Weight	325 grams
FREE traceable certificate of calibration included	

THERMACHECK THERMOMETER & PROBE

- Assured accuracy for the life of the thermometer
- High system accuracy $\pm 0.3^{\circ}\text{C}$
- FREE traceable certificate of calibration
- Meets the European Standard EN 13485

The ThermaCheck digital thermistor thermometer has been specifically designed for use in the catering and food processing industries to cope with routine day-to-day usage.

The instrument measures temperature over the range of -39.9 to 149.9°C with a resolution of 0.1°C and a high system accuracy (probe and thermometer) of $\pm 0.3^{\circ}\text{C}$ (-29.9 to 129.9°C). This accuracy is guaranteed for life, due to the instrument's advanced electronics.

The ThermaCheck is housed in an ergonomic, robust ABS case that includes Biomaster product protection which reduces bacterial growth. The low power consumption electronics are powered by three AAA batteries, giving the instrument a minimum battery life of five years. The auto-power-off facility turns the instrument off automatically after ten minutes, maximising battery life.

The ThermaCheck thermometer is supplied complete with a permanently attached food penetration probe with a 130 mm stainless steel stem and one metre coiled PU lead.



OPTIONAL ACCESSORIES:

- Protective silicone cover. Various colours are available - see below
- Stainless steel wall bracket (832-050) & white silicone cover (screws not supplied)



Order code	Description
226-042	ThermaCheck
830-221	Protective silicone cover - white
830-222	Protective silicone cover - yellow
830-223	Protective silicone cover - green
830-224	Protective silicone cover - red
830-225	Protective silicone cover - blue
830-227	Protective silicone cover - black
832-050	S/steel wall bracket & cover

Specification	ThermaCheck
Range	-39.9 to 149.9°C
Resolution	0.1°C
Accuracy	$\pm 0.3^{\circ}\text{C}$ (-29.9 to 129.9°C)
Battery & life	3 x 1.5 volt AAA - 20,000 hours
Sensor type	Thermistor
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	220 grams
FREE traceable certificate of calibration included	

THERMA 1T THERMOMETER

- High accuracy $\pm 0.2\text{ }^{\circ}\text{C}$
- FREE traceable certificate of calibration
- High accuracy type T thermocouple probe socket
- Includes Biomaster product protection

The Therma 1T utilises a type T thermocouple sensor which offers both fast response and a measurement range of -100 to $400\text{ }^{\circ}\text{C}$ with a $0.1\text{ }^{\circ}\text{C}$ resolution. Each unit is housed in a robust ABS case that includes Biomaster product protection that reduces bacterial growth.

The Therma 1T thermometer features a large, easy-to-read, LCD display with open circuit and low battery indication. Each unit is powered by three AAA batteries that give a minimum of 10,000 hours of battery life. The instrument will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if not required.

Below is a small selection of our high accuracy ($\pm 0.2\text{ }^{\circ}\text{C}$) type T thermocouple probes, for alternative probes contact our sales team or visit our website.



Order code	Description
221-107	Therma 1T
830-221	Protective silicone cover - white
832-050	S/steel wall bracket & cover
The Therma 1T is exclusive of probe	



model available
see page 58









Fast response probe (127-159)

Specification	Therma 1T
Range	-100 to $400\text{ }^{\circ}\text{C}$
Resolution	$0.1\text{ }^{\circ}\text{C}$ to $300\text{ }^{\circ}\text{C}$ thereafter $1\text{ }^{\circ}\text{C}$
Accuracy	$\pm 0.2\text{ }^{\circ}\text{C}$ $\pm 0.1\%$ of reading
Battery & life	3 x 1.5 volt AAA - 10,000 hours
Sensor type	T thermocouple
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams
FREE traceable certificate of calibration included	

CATERING

HIGH ACCURACY TYPE T THERMOCOUPLE PROBES

		Order code
PENETRATION PROBE   $\varnothing 3.3 \times 130\text{ mm}$	This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to $250\text{ }^{\circ}\text{C}$	127-160 327-160 (coiled lead)
FAST RESPONSE PROBE   $\varnothing 3.3 \times 100\text{ mm}$	This reduced tip ($\varnothing 1.8 \times 25\text{ mm}$), fast response, stainless steel penetration probe is ideal for liquids or semi-solids i.e. soft rubber and other similar materials. <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to $250\text{ }^{\circ}\text{C}$	127-159 327-159 (coiled lead)
AIR OR GAS PROBE   $\varnothing 4.5 \times 130\text{ mm}$	This stainless steel, fast response probe is ideal for measuring air temperature in chill cabinets, fridges, freezers, storage areas and similar. <ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -75 to $250\text{ }^{\circ}\text{C}$	127-300 327-300 (coiled lead)

Please note: the above type T thermocouple probes offer a high accuracy of $\pm 0.2\text{ }^{\circ}\text{C}$ over the range of -20 to $70\text{ }^{\circ}\text{C}$

THERMA 20 HIGH ACCURACY THERMOMETER

- Assured accuracy for the life of the thermometer
- Meets the European Standard EN 13485
- 2-year guarantee
- Optional test caps for accuracy checks

The Therma 20 thermistor thermometer has been specifically designed for use in the catering industry with HACCP and health and safety procedures in mind.

The instrument displays temperature to 0.1 °C over the range of -39.9 to 149.9 °C with a high system accuracy of ± 0.4 °C (-24.9 to 109.9 °C). This accuracy is guaranteed for life, due to the instrument's advanced electronics. The Therma 20 features an easy-to-read, LCD display with low battery indication.

The thermometer can be used in low ambient working temperatures down to -20 °C, which meets the requirements of the European Standard EN 13485 for the temperature monitoring of food through the supply chain, from transport to storage to point of sale.

The instrument is housed in an ergonomic, robust ABS case that includes Biomaster product protection which reduces bacterial growth. The thermometer's auto-power-off facility turns the instrument off automatically after ten minutes.

The Therma 20 incorporates an easy-to-use Lumberg screw-locking connector, allowing both a wide range of interchangeable thermistor probes and self-calibration test caps to perform accuracy checks.



Thermistor penetration probe (174-166)

- For alternative probes see pages 86 and 87.



THERMA 20 PROFESSIONAL CATERING THERMOMETER KIT

Each kit contains:

- Therma 20 thermometer (226-040)
- Thermistor penetration probe (174-166)
- Air wire probe (170-372)
- Temperature log book (831-100)
- Box of 100 Probe Wipes (836-220)
- ABS carrying case (834-120)



model available
see page 59

Order code	Description
226-040	Therma 20
860-120	Professional catering kit
174-166	Thermistor penetration probe
286-001	Thermistor test cap -18 °C
286-002	Thermistor test cap 0 °C
286-003	Thermistor test cap 3 °C
286-004	Thermistor test cap 70 °C
286-005	Thermistor test cap 100 °C
830-221	Protective silicone cover - white
832-050	S/steel wall bracket & cover
Exclusive of probe when purchased as a unit only	

Specification	Therma 20
Range	-39.9 to 149.9 °C
Resolution	0.1 °C
Instrument only accuracy	± 0.2 °C
System accuracy	± 0.5 °C (-24.9 to 109.9 °C)
Battery & life	3 x 1.5 volt AAA - 20,000 hours
Sensor type	Thermistor
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams
FREE traceable certificate of calibration included	



THERMA 22 & 22 PLUS THERMOMETERS

- Utilises thermistor or type T thermocouple probes
- Meets the European Standard EN 13485
- Includes Biomaster product protection
- FREE traceable certificate of calibration

The Therma 22 and 22 Plus thermometers accept both thermocouple and thermistor probes. The thermistor sensor gives greater accuracy whilst the type T thermocouple sensor gives a faster response with an extended measurement range.

Both units display temperature over a range of -199.9 to 400 °C (Type T thermocouple) and -39.9 to 149.9 °C (thermistor). The LCD display includes open circuit and low battery indication, and auto-power-off to maximise battery life.

Housed in an ABS case that includes Biomaster product protection, each unit also incorporates a Lumberg screw-locking type connector that supports a range of interchangeable probes. Type T thermocouple probes are available on page 84, and thermistor probes are available on pages 86-87.

- The Therma 22 Plus incorporates all the features of the Therma 22 thermometer, but with the addition of a backlight display, max/min memory function, hold function and is waterproof offering IP66/67 protection.



model available
see page 59



CATERING

THERMA 22 FOOD HYGIENE THERMOMETER KIT



Each kit contains:

- Therma 22 thermometer (227-022)
- Type T penetration probe (177-166)
- Air wire probe (177-372)
- Temperature log book (831-100)
- Box of 100 Probe Wipes (836-220)
- ABS carrying case (834-120)



Order code	Description
227-022	Therma 22*
860-125	Food hygiene kit
232-041	Therma 22 Plus*
177-166	Type T penetration probe
174-266	Thermistor penetration probe

*Exclusive of probe when purchased as a unit only

Specification	Therma 22	Therma 22 Plus
Range - Type T thermocouple	-199.9 to 400 °C	
Range - Thermistor	-39.9 to 149.9 °C	
Resolution	0.1 °C to 299.9 °C thereafter 1 °C	
Instrument only accuracy	±0.2 °C	
System accuracy - Type T t/c	±0.5 °C (-49.9 to 149.9 °C)	
System accuracy - Thermistor	±0.5 °C (-24.9 to 109.9 °C)	
Battery	3 x 1.5 volt AAA	
Battery life	10,000 hours	7,500 hours
Sensor type	Thermistor/Type T thermocouple	
Display	12 mm LCD	15 mm LCD
Dimensions	25 x 56 x 128 mm	32 x 71 x 141 mm
Weight	130 grams	220 grams

FREE traceable certificate of calibration included



THERMA 20 METAL THERMOMETER

- Extruded aluminium case for superior durability
- FREE traceable certificate of calibration
- Waterproof to IP67
- Large, easy-to-read LCD display

The Therma 20 Metal waterproof thermometer offers IP67 protection and is housed in a robust extruded aluminium case. The thermometer utilises state of the art electronic circuitry, designed for reliability and ease of use and can be submerged or washed under a running tap - ideal for food processing applications where cleaning is paramount.

The Therma 20 Metal thermometer measures temperature over the range of -39.9 °C to 149.9 °C with a 0.1 °C resolution. The instrument features a large, easy-to-read, LCD display. The unit also incorporates an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life.

The instrument is housed in an ergonomic case with a white powder coated finish.

The Therma 20 Metal incorporates an easy-to-use waterproof Lumberg screw-locking type connector, allowing a wide range of interchangeable thermistor probes to be used. We offer an extensive range of probes, see pages 86 and 87 for details.



● Stainless steel wall bracket (832-789)

Stores your Therma 20 Metal safely and helps avoid accidental damage. Provides easy wall hanging. Dimensions 44 x 67 x 122 mm. Screws not supplied.



Order code	Description
221-700	Therma 20 Metal
832-789	Stainless steel wall bracket
174-266	Penetration probe

The Therma 20 Metal is exclusive of probe

Specification	Therma 20 Metal
Range - thermistor	-39.9 °C to 149.9 °C
Resolution	0.1 °C
Instrument only accuracy	±0.2 °C ±0.1 % of reading
System accuracy	±0.5 °C (-24.9 to 109.9 °C) otherwise 1 °C
Battery & life	3 x 1.5 volt AAA - 10,000 hours @ 25 °C
Sensor type	Thermistor
Display	15 mm LCD
Dimensions	37 x 61.4 x 177 mm
Weight	242 grams

FREE traceable certificate of calibration included

THERMA K METAL THERMOMETER

- Interchangeable thermocouple probes
- FREE traceable certificate of calibration
- Wide temperature range -99.9 to 1372 °C
- Extruded aluminium case for superior durability

The Therma K Metal hand held thermometer is housed in a robust extruded aluminium waterproof case, offering IP67 protection, with a white powder coated finish. The instrument incorporates the latest microprocessor technology with improved durability, designed for reliability and ease of use in day-to-day catering and food processing applications.

The unit features a large, easy-to-read, LCD display and measures temperature over the range of -99.9 to 1372 °C, -99.9 to 999.9 °C with a 0.1 °C resolution, auto-ranging to 1 °C resolution over the range of 1000 to 1372 °C.

The thermometer incorporates an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life. The on/off button is conveniently located at the front of the instrument as is the display hold facility. The secure battery compartment with a waterproof cover is located at the base of the instrument.



OPTIONAL ACCESSORIES:

- Stainless steel wall bracket (832-789) screws not supplied
- Anti-bacterial wipes - see page 40

Order code	Description
221-900	Therma K Metal
143-162	Penetration probe
832-789	Stainless steel wall bracket
The Therma K Metal is exclusive of probe	



Penetration probe (143-162)

- **Choice of probes** - Conveniently located at the top of the instrument is the thermocouple probe socket that allows a wide range of interchangeable, thermocouple type K probes to be connected to the instrument. We offer an extensive range of probes, see pages 77 to 83 for details.



Specification	Therma K Metal
Range	-99.9 °C to 1372 °C
Resolution	0.1 °C to 999.9 °C then 1 °C
Accuracy (instrument only)	±0.4 °C ±0.1 % of reading
Battery & life	3 x AAA - 10,000 hours @ 25 °C
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	37 x 61.4 x 177 mm
Weight	235 grams
FREE traceable certificate of calibration included	

CATERING

SAF-T-LOG® RECORDING THERMOMETER

- Displays date, time & user name with each reading
- Automatically archives data & creates reports
- Helps your business be HACCP compliant
- PASS/FAIL & corrective actions displayed

Measure, store, download and print HACCP reports. No more paper logs or complicated devices to train staff how to use. The Saf-T-Log is as easy-to-use as your current thermometer.

The Saf-T-Log uses PC software to create a list of up to 300 items that you routinely measure, 10 corrective actions, along with up to 25 users. Each item can include a high/low temperature limit that gives the user instant on-screen pass/fail feedback or yes/no on non-temperature items. A time delay feature can be added to each temperature item. Up to seven different checklists can be created at any one time, to be saved, emailed to other users and uploaded onto any Saf-T-Log.

Record up to 1,000 readings by simply scrolling to the correct item and pressing record. Any 'fail' or 'no' answer can prompt the selection of a corrective action. Once readings are taken they can be downloaded to a PC automatically when reconnected. The data is archived and a report generated automatically with no additional user input. The Saf-T-Log report is locked so the data logged cannot be tampered with.

Housed in a durable, IP66/67 waterproof case with a choice of interchangeable type K thermocouple probes, the Saf-T-Log can be used for a wide variety of applications. The thermometer includes a high contrast backlit display with an accuracy of $\pm 0.4^\circ\text{C}$ and a calibration trim function.

Please note: The Saf-T-Log is exclusive of probe



Penetration probe
(143-162)

- Protective silicone cover. Various colours are available - see below for details

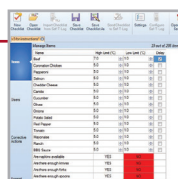


SAF-T-LOG SOFTWARE

The Saf-T-Log software is available as a free download from our website.

CUSTOMISED CHECKLISTS

Simply create your own checklist of items, upload to the unit, attach the appropriate probe and store readings at the touch of a button.



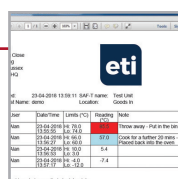
CORRECTIVE ACTIONS

The user is prompted to select a corrective action if the reading is outside of the acceptable limit. Easy for staff to implement and use.



REPORT GENERATOR

Reports are created automatically from the saved readings. Failed results are highlighted and notes or corrective actions included. Eliminates the need for paper logs.



Specification	Saf-T-Log
Range	-100 to 1372 °C
Resolution	0.1 °C
Accuracy	$\pm 0.4^\circ\text{C} \pm 0.1\%$ of reading
Battery	3 x 1.5 volt AAA
Battery life	3,000 hours (without backlight)
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	32 x 71 x 141 mm
Weight	220 grams

Order code	Description
292-701	Saf-T-Log
143-162	Penetration probe
830-231	Protective silicone cover - white
830-232	Protective silicone cover - yellow
830-233	Protective silicone cover - green
830-234	Protective silicone cover - red
830-235	Protective silicone cover - blue
830-257	Protective silicone cover - black
832-015	Stainless steel wall bracket

FREE traceable certificate of calibration included

THERMAQ® 2 THERMOMETER

- Simultaneously measures four probe temperatures
- Audible alarm with variable volume control
- Wide temperature range -99.9 to 1372 °C
- Waterproof housing offers IP67 protection

The ThermaQ 2 thermometer allows the user to simultaneously use four type K thermocouple probes whilst displaying current temperatures and the maximum and minimum recorded temperatures. This allows the user to monitor multiple food items and the oven air temperature at the same time. It includes programmable high and low alarms for all four channels with easy-to-use buttons and an alarm volume of up to 100 decibels.

Measuring temperature over the range of -99.9 to 299.9 °C with a 0.1 °C resolution or 300 to 1372 °C with a 1 °C resolution. The unit features a large, easy-to-read LCD display with °C/°F, which cycles from T1 & T2 to T3 & T4, max/min, open circuit, low battery indication, and a user selectable backlight.

The instrument is housed in an ergonomic, ABS case that includes Biomaster product protection to reduce bacterial growth. An integrated rubber seal ensures complete water resistance and helps reduce the possibility of damage in harsh environments.

We offer an extensive range of interchangeable type K thermocouple probes for a variety of different applications, see below and pages 77 to 83.



Shown with 830-258 silicone cover (cover incorporates a built-in stand & magnet)



Order code	Description
231-052	ThermaQ 2
830-258	Protective silicone cover - black
832-015	Stainless steel wall bracket
830-278	High temp coloured probe rings (8 pk)
The ThermaQ 2 is exclusive of probes	

Specification	ThermaQ 2
Range	-99.9 to 1372 °C
Resolution	0.1 °C to 299.9 °C thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Battery & life	3 x 1.5 volt AAA - 3,000 hours
Sensor type	K thermocouple
Display	Custom LCD
Dimensions	32 x 71 x 142 mm
Weight	230 grams
FREE traceable certificate of calibration included	

		Order code
Q SERIES AIR PROBE & CLIP 	<p>This oven/air probe is ideal for monitoring air temperatures. Using the grate clip provided, attach the probe to an oven rack/shelf. Supplied with a 1.2 metre stainless steel braided PTFE lead.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -50 to 250 °C 	133-645 830-530 (spare clip)
Q SERIES SMOKEHOUSE COOKING PROBE 	<p>This right angled stainless steel penetration probe is ideal for continuous monitoring during cooking processes. Supplied with a 1.2 metre stainless steel braided PTFE lead.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -50 to 250 °C 	133-605
Q SERIES PENETRATION PROBES 	<p>These stainless steel penetration probes are ideal for continuous monitoring in ovens. Supplied with a 1.2 metre stainless steel braided PTFE lead.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -50 to 250 °C 	133-635 (60 mm) 133-615 (115 mm) 133-625 (305 mm)

For high temperature Q Series probes rated to 350 °C, replace the last digit (5) of the order code with the number 0

SOUS VIDE PREMIUM THERMOMETER KIT

- For precise temperature measurement
- Includes miniature needle probe for sous vide cooking
- FREE traceable certificate of calibration
- 2 year guarantee

Sous vide cooking has become more popular in professional kitchens over the past few years. New cooking methods require new temperature testing techniques. Therefore, ETI has designed two Sous Vide kits; each containing a high accuracy Therma 1 thermometer, Sous Vide needle probe(s) and Sous Vide foam/tape, all supplied in a FREE carrying case/zip pouch.

For a full specification on the Therma 1 thermometer, see page 65.

What is sous vide cooking?

Sous vide is a method of cooking that involves using precise, controlled temperatures to produce food that is perfectly and evenly cooked all the way through. French for 'under vacuum', the process of sous vide involves vacuum-sealing food inside a bag and placing it inside a water bath where it will slowly reach, but not exceed, the desired temperature. The food is then ready to be eaten or can be finished by briefly searing, broiling, grilling or deep frying.





- Therma 1 thermometer (221-041) with Sous Vide needle probe (133-109)

SOUS VIDE PREMIUM KIT CONTAINS:

- Therma 1 thermometer (221-041)
- 60 mm Sous Vide needle probe (133-109)
- 120 mm Sous Vide needle probe (133-110)
- Water-resistant countdown timer (806-150)
- Box of 100 Probe Wipes (836-220)
- Sous Vide foam/tape - one metre (600-470)
- ABS carrying case (834-150)

Order code	Description
860-035	Sous Vide Premium thermometer kit
600-470	Additional Sous Vide foam/tape
FREE traceable certificate of calibration included	

		Order code
SOUS VIDE NEEDLE PROBE  		133-109 (60 mm)
Ideal for delicate foods, this miniature, stainless steel needle probe is supplied with a one metre PTFE lead. <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -49.9 to 90 °C 		133-110 (120 mm)
Ø1.1 x 60 or 120 mm		

SOUS VIDE STANDARD THERMOMETER KIT

- Fast response, reaches temperature in less than 1 second
- Delivers consistent results for sous vide cooking
- Precise temperature control
- 2 year guarantee

SOUS VIDE STANDARD KIT CONTAINS:

- Thermo 1 thermometer (221-041)
- 60 mm Sous Vide needle probe (133-109)
- Sous Vide foam/tape - one metre (600-470)
- Zip pouch (830-037)



Order code	Description
860-036	Sous Vide Standard thermometer kit
600-470	Additional Sous Vide foam/tape
FREE traceable certificate of calibration included	

SOUS VIDE THERMAPEN® THERMOMETER

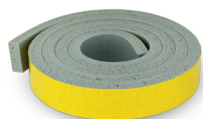
- Miniature needle probe for sous vide cooking
- High accuracy $\pm 0.4^{\circ}\text{C}$

The Sous Vide Thermapen thermometer has been specifically designed for sous vide cooking and areas where precise temperature measurement is required.

This model incorporates a miniature, stainless steel needle probe that has a $\varnothing 1.1 \times 60 \text{ mm}$ reduced tip, that conveniently folds back through 180° into the side of the instrument when not in use.

Please Note: The probe tip is small in diameter and should be used with care.

Use in conjunction with sous vide tape to measure the core temperature without suffering water ingress into your vacuum sealed bag.



- Sous vide foam/tape - one metre (600-470)

Order code	Description
231-011	Sous Vide Thermapen
600-470	Sous Vide foam/tape
830-001	Zip pouch



Specification	Sous Vide Thermapen
Range	-49.9 to 299.9°C
Resolution	0.1 °C or 1 °C - user selectable
Accuracy	$\pm 0.4^{\circ}\text{C}$ (-49.9 to 199.9 °C) otherwise $\pm 1^{\circ}\text{C}$
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,500 hours
Sensor type	K thermocouple
Display	14.5 mm LCD
Dimensions	19 x 47 x 153 mm
Weight	97 grams
FREE traceable certificate of calibration included	

MICRO POCKET THERMOMETER

NEW

- Compact design, ideal for chefs' pockets
- Reduced tip for faster response

The NEW water-resistant Micro Pocket thermometer is the ideal choice for chefs who need a compact and convenient thermometer for spot checks in the kitchen.

Measuring temperature over the range of -50 to 150 °C with a 0.1 °C resolution, the thermometer will power off automatically after 5 minutes, maximising battery life.

The instrument incorporates a Ø2.5 x 100 mm stainless steel penetration probe with a reduced fast response Ø1.6 mm tip.

Available in white, red and blue, each unit is supplied with a protective probe cover that incorporates a pocket clip for safe storage and transportation.



Order code Description

810-841	Micro Pocket thermometer - white
810-844	Micro Pocket thermometer - red
810-845	Micro Pocket thermometer - blue

Specification Micro Pocket

Range	-50 to 150 °C
Resolution	0.1 °C
Accuracy	±0.5 °C (-10 to 100 °C) otherwise 1.0 °C
Battery	1 x 3 volt CR1632 lithium coin cell
Battery life	2,000 hours
Sensor type	Thermistor
Display	13 x 9 mm
Dimensions	22 x 27 x 124 mm
Weight	15 grams

THERMASTICK® THERMOMETER

- Reduced tip for faster response
- Waterproof to IP66

The ThermaStick is a handy, pocket-sized, waterproof IP66 thermometer that incorporates a Ø2.5 x 115 mm stainless steel penetration probe with a reduced fast response Ø1.6 mm tip.

The thermometer measures temperature over the range of -49.9 to 299.9 °C with a resolution of 0.1 °C/°F and features two easy-to-use push buttons, on/off and max/min.

Powered by a single lithium coin cell battery that gives a minimum of 5,000 hours use. The unit will power off automatically after ten minutes, maximising battery life.

Available in white, red or blue, each unit is supplied with a probe cover that incorporates a pocket clip for safe storage and transportation.

Order code Description

810-401	ThermaStick thermometer - white
810-404	ThermaStick thermometer - red
810-405	ThermaStick thermometer - blue



Specification ThermaStick

Range	-49.9 to 299.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C (-10 to 100 °C) otherwise ±2.5 °C
Battery & life	3 volt CR2032 lithium coin cell - 5,000 hours
Sensor type	Thermistor
Display	12 mm LCD
Dimensions	Ø46 x 15 x 188 mm
Weight	28 grams

POCKET-SIZED THERMOMETERS

Pen-shaped thermometer

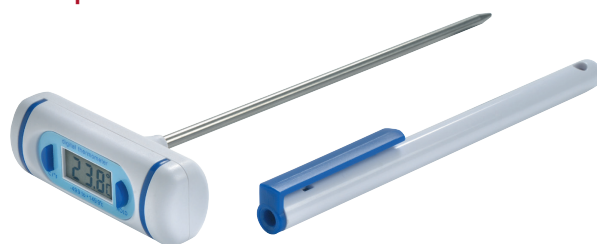


This pen-shaped thermometer measures temperature over the range of -49.9 to 149.9 °C, features a Ø3.5 x 120 mm stainless steel penetration probe and incorporates a °C/°F switch and display hold feature. Supplied with a probe cover that includes a pocket clip.

Specification	Pen-shaped
Range	-49.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C
Battery & life	1.5 volt LR44 - 5,000 hours
Sensor type	Thermistor
Display	6 mm LCD
Dimensions	17 x 20 x 190 mm
Weight	15 grams

Order code	Description
810-260	Pen-shaped thermometer

T-shaped thermometer



This handy-sized thermometer measures temperature over the range of -49.9 to 149.9 °C, features a Ø3.5 x 120 mm stainless steel penetration probe and incorporates a °C/°F switch and display hold feature. Supplied with a probe cover that includes a pocket clip.

Specification	T-shaped
Range	-49.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C
Battery & life	1.5 volt LR44 - 5,000 hours
Sensor type	Thermistor
Display	6 mm LCD
Dimensions	20 x 58 x 145 mm
Weight	15 grams

Order code	Description
810-265	T-shaped thermometer

Waterproof thermometer



This waterproof IP66/67 thermometer incorporates a Ø2.5 x 122 mm stainless steel penetration probe and has been designed for reliability and ease of use in routine day-to-day catering and food preparation applications.

This unit measures temperature over the range of -49.9 to 199.9 °C with a 0.1 °C resolution and features a max/min temperature recording function.

Specification	Waterproof
Range	-49.9 to 199.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C (-9.9 to 99.9 °C) otherwise ±1.5 °C
Battery & life	3 volt CR2032 lithium coin cell - 5,000 hours
Sensor type	Thermistor
Display	8 mm LCD
Dimensions	15 x 26 x 200 mm
Weight	25 grams

Order code	Description
810-275	Waterproof thermometer
830-275	Protective silicone cover

Waterproof T-Shaped thermometers



These waterproof, T-shaped thermometers offer IP66/67 protection and are housed in a robust, polycarbonate case with a strong, stainless steel, penetration probe. The probe measures Ø5 x 125 mm or 300 mm with a reduced tip (Ø3.5 x 20 mm) to improve response time.

These thermometers also feature a max/min memory and display hold function.

Specification	Waterproof T-shaped
Range	-49.9 to 149.9 °C
Resolution	0.1 °C
Accuracy	±1 °C (-19.9 to 119.9 °C)
Battery & life	1.5 volt LR44 - 5,000 hours
Sensor type	Thermistor
Display	12 mm LCD
Dimensions	30 x 88 x 170/345 mm
Weight	50/55 grams

Order code	Description
810-285	T-shaped - 125 mm probe
810-287	T-shaped - 300 mm probe

ThermaProbe® thermometer

The ThermaProbe is a lightweight, waterproof to IP66 thermometer with a bi-directional auto-rotating display. It comes with a Ø2.5 x 70 mm stainless steel penetration probe with a reduced fast response Ø1.6 mm tip, and includes max/min and on/off buttons.

Each unit is supplied with two batteries and a protective probe cover.



Specification	ThermaProbe
Range	-50 to 300 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C (-10 to 100 °C) otherwise ±2.5 °C
Battery & life	2 x 1.5 volt LR44 - 4,000 hours
Sensor type	Thermistor
Display	Custom LCD
Dimensions	Ø51 x 178 mm
Weight	41 grams

Order code	Description
810-421	ThermaProbe thermometer

Super-Fast Mini thermometer

The Super-Fast Mini is a pocket-sized, water-resistant to IP65 thermometer. It measures temperature from -39.9 to 149.9 °C. The unit automatically turns on when you remove the probe cover.

Incorporating a fast response Ø2.5 x 73 mm stainless steel penetration probe with reduced tip and features max/min and hold functions.

Each unit uses a CR2032 battery and comes with a probe cover with integral pocket clip.



Specification	Super-Fast Mini
Range	-39.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C (-9.9 to 99.9 °C) otherwise ±1.5 °C
Battery & life	3 volt CR2032 - 5,000 hours
Sensor type	Thermistor
Display	8 mm LCD
Dimensions	Ø25 x 150 mm
Weight	20 grams

Order code	Description
810-279	Super-Fast Mini thermometer

CONFECTIONERY & JAM THERMOMETERS

Cook's stainless steel thermometer



This stainless steel thermometer indicates temperature over the range of 40 to 200 °C and 100 to 400 °F in 2 °C/°F divisions. The thermometer's stainless steel casing incorporates a retaining clip and measures 50 x 240 mm plus a 65 mm plastic handle.

The thermometer's scale is clearly marked for hard crack, soft crack, hard ball, soft ball, thread, jam, caramel, sterilising and deep fry.

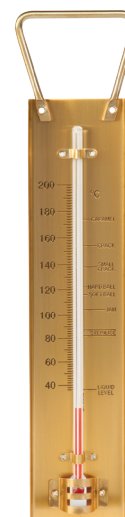


Order code	Description
800-806	Cook's thermometer

Brass sugar & jam thermometer

The traditional brass thermometer indicates temperature over the range of 40 to 200 °C in 2 °C divisions. The thermometer's brass casing measures 47 x 200 mm plus a 40 mm handle.

The thermometer's scale is clearly marked for caramel, crack, hard ball, soft ball, jam and sterilise.



Order code	Description
800-808	Brass sugar & jam thermometer

MILK FROTHING THERMOMETERS

- Easy-to-read dial with colour-coded zones
- Colour-coded pack available

The barista milk frothing thermometers incorporate a °C/°F dial with colour-coded zones that make them fast and simple-to-use.

Measuring over the range of -10 to 110 °C, these thermometers are available in two probe lengths and dial sizes. Each thermometer is supplied with a stainless steel jug mounting probe clip, plastic calibration spanner and protective probe cover.

Also available as a pack of three colour-coded milk dial thermometers (red, green and blue) for barista's to easily identify different types of milk used in stainless steel jugs, to avoid cross-contamination.



Order code	Description
800-810	Ø25 x 130 mm milk dial
800-820	Ø45 x 130 mm milk dial
800-800	Ø45 x 175 mm milk dial
800-830	Ø45 x 175 mm milk dial - pack of 3
830-220	Ø4 mm probe holder clip



- **Ø4 mm probe holder clip**
This stainless steel probe holder clips onto the top of a jug, saucepan or similar to hold in place a temperature probe.

DIGITAL MILK THERMOMETER

- 3 preset temperatures or set your own
- Clear, easy-to-read display

New for 2025, this digital milk thermometer is a must-have for any barista. Designed to help you steam milk perfectly, the thermometer's alarm will sound when you reach or exceed the required temperature.

There are three preset temperatures: 60 °C, 65 °C and 70 °C. Alternatively, you can set your own required temperature by using the + or - buttons on the instrument.

Measuring over the range of 0 to 125 °C, the thermometer is supplied with a stainless steel probe clip to attach the thermometer to the top of a jug, saucepan or similar.

The thermometer will power off automatically after 5 minutes, maximising battery life. Available with green, red, or blue bands to easily identify different types of milk used in stainless steel jugs, to avoid cross-contamination. Choose between two lengths, 130 mm or 175 mm, to suit various milk jug sizes.

Order code	Description
810-873	130 mm stem with green band
810-874	130 mm stem with red band
810-875	130 mm stem with blue band
810-883	175 mm stem with green band
810-884	175 mm stem with red band
810-885	175 mm stem with blue band



Specification	Digital milk thermometer
Range	0 to 125 °C
Resolution	1 °C
Accuracy	±1 °C
Battery	2 x 1.5 volt LR44
Battery life	Minimum 500 hours of continuous use
Display	custom LCD
Dimensions	39 x 44 x 173 / 218 mm
Weight	31 grams

MULTI-FUNCTION THERMOMETER

- Displays both temperature & alarm set temperatures
- Includes CalCheck 0.0 °C function

The Multi-Function is a compact and easy-to-use thermometer ideal for restaurants, bars and cafes as an economical solution for temperature measurement applications.

The thermometer features a display hold facility, max/min memory and a CalCheck 0.0 °C function together with an adjustable audible high/low temperature alarm.

The Multi-Function thermometer housing and probe handle includes Biomaster product protection that reduces bacterial growth.

Each unit is supplied with a stainless steel, food penetration probe (Ø3.5 x 125 mm) with one metre PVC connecting lead, pocket clip and probe cover.



Order code Description

810-927 Multi-Function thermometer

Specification	Multi-Function
Range	-19.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C (0 to 120 °C) otherwise ±2 °C
Battery & life	1.5 volt AAA - 5,000 hours
Sensor type	Thermistor
Display	Custom LCD
Dimensions	25 x 75 x 125 mm
Weight	111 grams

ECOTEMP® THERMOMETER

- Detachable, stainless steel penetration probe
- Large, easy-to-read LCD display

The EcoTemp digital thermometer features a large, easy-to-read, LCD display with display hold and max/min memory functions. The instrument measures temperature over the range of -49.9 to 199.9 °C with a 0.1 °C/°F resolution. Both open circuit and low battery indication are displayed when applicable. This thermometer is ideal for monitoring cooking and food holding temperatures as part of HACCP and health and safety procedures.

The EcoTemp thermometer housing and probe handle includes Biomaster product protection that reduces bacterial growth. Each unit is supplied with a detachable, stainless steel food penetration probe (Ø3.5 x 125 mm) with a 700 mm silicone connecting lead.



Order code Description

810-950 EcoTemp thermometer & probe
 810-951 Replacement penetration probe
 810-952 Air wire probe (3m)
 810-954 Air wire probe (1.5m)
 810-955 Oven penetration probe
 830-215 Protective silicone cover - white

Specification	EcoTemp
Range	-49.9 to 199.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C (-49.9 to 149.9 °C)
Battery & life	2 x 1.5 volt AAA - 10,000 hours
Sensor type	Thermistor
Display	Custom 22 mm LCD
Dimensions	20 x 58 x 165 mm
Weight	115 grams

GOURMET THERMOMETER

- Water-resistant with folding probe
- Includes CalCheck 0.0 °C function
- Ideal for HACCP procedures
- Accuracy of ± 0.5 °C

The water-resistant Gourmet folding probe thermometer is an easy-to-use instrument, ideal for monitoring cooking, cooling and food holding temperatures as part of HACCP and health and safety procedures. The unit measures temperature over the range of -39.9 to 149.9 °C with a 0.1 °C/°F resolution and incorporates two moulded push buttons, on/off and hold.

Each unit incorporates a stainless steel, food penetration probe (Ø3.5 x 110 mm) that conveniently folds back into the side of the instrument when not in use, rotating through 180°, allowing the user to transport the instrument safely. The Gourmet includes Biomaster product protection that reduces bacterial growth, ideal for routine day-to-day food and catering applications. Available in five colours, ideal for different food types or preparation areas.



- **CalCheck 0.0 °C function**
The Gourmet features a CalCheck 0.0 °C function that allows the user to verify the accuracy of the thermometer at any time, giving confidence that measurements are accurate.



Order code	Description
810-730	Gourmet thermometer - white
810-732	Gourmet thermometer - yellow
810-733	Gourmet thermometer - green
810-734	Gourmet thermometer - red
810-735	Gourmet thermometer - blue
830-110	Protective wallet
830-001	Zip pouch
832-002	Stainless steel wall bracket

OPTIONAL ACCESSORIES:

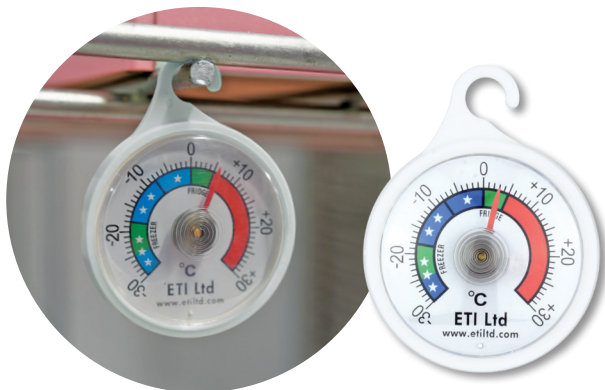
- Protective PVC wallet with belt strap (830-110)
- Stainless steel wall bracket (832-002) (screws not supplied)
- Anti-bacterial Probe Wipes - see page 40 for details



Specification	Gourmet
Range	-39.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	± 0.5 °C (-39.9 to 124.9 °C)
Battery	3 volt CR2032 lithium coin cell
Battery life	5,000 hours
Sensor type	Thermistor
Display	16 mm LCD
Dimensions	20 x 52 x 155 mm
Weight	83 grams

FRIDGE OR FREEZER THERMOMETERS

Ø52 mm dial thermometer

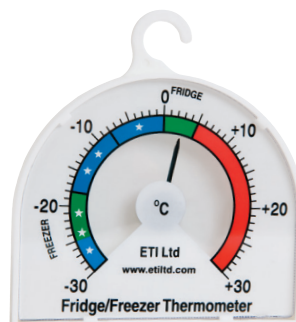


This easy-to-read fridge/freezer thermometer has a Ø52 mm dial that indicates temperature over the range of -30 to 30 °C in 1 °C divisions.

The unit incorporates colour-coded zones for ease of reading. The fridge/freezer thermometer is housed in an ABS case that incorporates a plastic hook to hang from a shelf.

Order code	Description
800-100	Ø52 mm dial thermometer
800-101	Ø52 mm dial - box of 20

Ø70 mm dial thermometer



This fridge/freezer thermometer has a Ø70 mm dial that indicates temperature over the range of -30 to 30 °C in 1 °C divisions. The unit incorporates colour-coded zones for ease of reading.

The fridge/freezer thermometer is housed in an ABS case measuring 60 x 70 mm and can be free-standing or hung from a shelf.

Order code	Description
800-000	Ø70 mm dial thermometer
800-001	Ø70 mm dial - box of 10

Ø50 mm dial thermometer



This stainless steel, fridge/freezer thermometer has a Ø50 mm dial that indicates temperature over the range of -30 to 30 °C in 1 °C divisions.

The colour-coded area indicates when the thermometer is at the correct temperature for a fridge or freezer. The stainless steel housing measures 60 x 70 mm and can be free-standing or hung from a shelf.

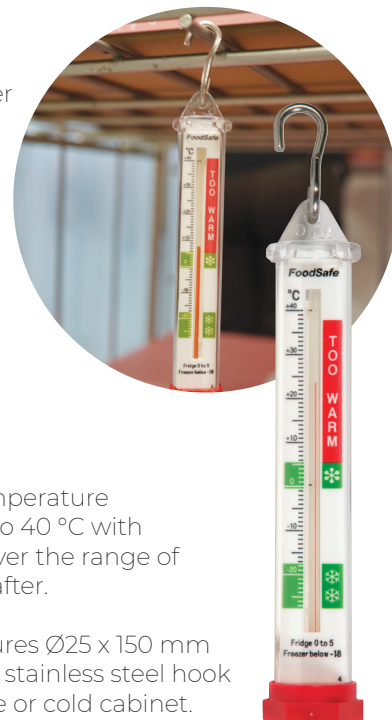
Order code	Description
800-923	Ø50 mm dial thermometer

FoodSafe fridge thermometer

The FoodSafe food simulant thermometer is more reliable than traditional thermometers for monitoring fridge temperature. It accurately measures the temperature of food inside, ensuring consistent and safe temperatures for commercial use. It's robust and hygienic.

The unit indicates temperature over the range of -25 to 40 °C with an accuracy of ±1 °C over the range of -5 to 20 °C, 2 °C thereafter.

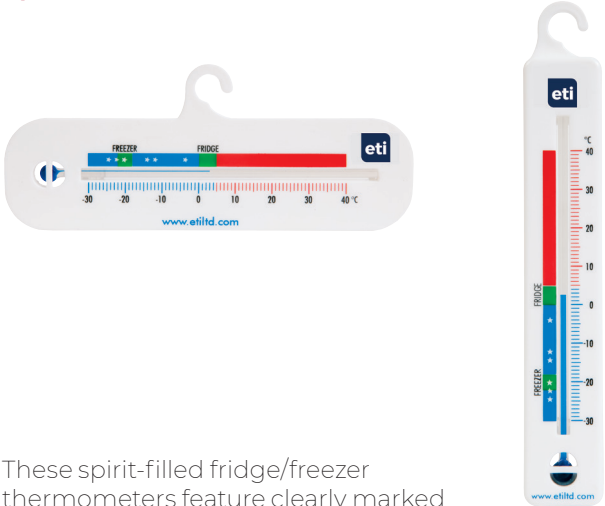
Each FoodSafe measures Ø25 x 150 mm and is supplied with a stainless steel hook for hanging in a fridge or cold cabinet.



Order code	Description
803-900	FoodSafe thermometer

SPIRIT-FILLED FRIDGE OR FREEZER THERMOMETERS

Spirit-filled thermometers



These spirit-filled fridge/freezer thermometers feature clearly marked colour-coded zones for ease of reading. The horizontal thermometer indicates temperature over the range of -30 to 40 °C in 1 °C divisions. The ABS housing measures 53 x 130 mm. The vertical thermometer indicates temperature over the range of -30 to 40 °C in 1 °C divisions. The ABS case measures 24 x 150 mm.

Order code	Description
803-000	Vertical spirit-filled
803-050	Horizontal spirit-filled

Clear spirit-filled thermometer



This spirit-filled fridge/freezer thermometer is encased in a clear ABS housing (20 x 30 x 122 mm). The thermometer's colour-coded zones indicate temperature over the range of -40 to 20 °C and -40 to 80 °F with a 1 °C resolution. The unit is designed to be hung from a shelf in a fridge, freezer or cold cabinet, alternatively it could be wall-mounted (brackets supplied).

Order code	Description
803-925	Clear spirit-filled thermometer
803-930	Clear spirit-filled - box of 10

DIGITAL FRIDGE THERMOMETER

- Energy saving light sensor - 5 years of battery life
- Food safety zone indicator

This water-resistant (IP65) fridge thermometer incorporates a large and clear digital display that indicates temperature over the range of -9.9 to 49.9 °C with a 0.1 °C resolution. The thermometer features a unique food safety zone icon '❄' in the display that will remain on the screen whilst within the range of 0 and 5 °C and will flash to indicate being outside of this range. The fridge thermometer's energy saving feature turns the unit off when deprived of light, maximising battery life. The unit is powered by a single CR2032 battery with a life expectancy of 10,000 hours normal use. The unit is housed in an ABS case that measures 26 x 45 x 73 mm and can be free-standing or hung from a shelf.

Order code	Description
810-251	Digital fridge thermometer



Specification	Digital fridge
Range	-9.9 to 49.9 °C
Resolution	0.1 °C
Accuracy	±1 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	10,000 hours
Display	Custom LCD
Dimensions	26 x 45 x 73 mm
Weight	40 grams

FRIDGE OR FREEZER THERMOMETER

- Dual sensors for room & appliance temperatures
- Programmable high/low audible alarm

This max/min and alarm fridge or freezer thermometer indicates temperature over the range of -24.9 to 69.9 °C with a resolution of 0.1 °C/°F and an accuracy of ±1 °C.

The thermometer features a clear LCD display, max/min memory function to record the highest and lowest temperatures and a high/low programmable audible alarm. The unit incorporates two temperature sensors, a remote water-resistant probe with one metre PVC lead for the appliance temperature and an internal sensor for the room temperature.

The remote probe can be mounted onto the internal wall of the fridge using the suction pad or mounting bracket supplied. The thermometer is housed in a durable ABS case and incorporates a foot stand for shelf mounting.

Order code	Description
810-225	Digital fridge or freezer



Remote probe

Specification Digital fridge or freezer

Range	-24.9 to 69.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	3,000 hours
Display	Custom LCD
Dimensions	16 x 50 x 82 mm
Weight	50 grams

FRIDGE OR FREEZER THERMOMETER

- Programmable high/low audible alarm
- Records the max/min temperatures

This fridge or freezer thermometer features a clear LCD display, max/min, audible alarm and incorporates two temperature sensors; a remote water-resistant probe with one metre PVC lead for the appliance temperature and an internal sensor for the room temperature.

The remote probe can be mounted onto the internal wall of the fridge using the suction pad or mounting bracket supplied. The thermometer is housed in a durable ABS case and incorporates a foot stand for shelf mounting.

- **Optional UKAS Certificate of Calibration**

An optional two-point UKAS Certificate of Calibration is available. Each certificate indicates deviations from standards at -18 and 0 °C.

Order code	Description
810-210	Fridge or freezer thermometer
891-210	810-210 with UKAS certificate

UKAS certificate applies to remote probe only



Remote probe

Specification Digital fridge or freezer

Range	-49.9 to 69.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C
Battery & life	1.5 volt AAA - 5000 hours
Display	Custom LCD
Dimensions	15 x 52 x 73 mm
Weight	55 grams

TEMPTAG® THERMOMETER

- Portable and versatile max/min thermometer
- Water-resistant to IP65

NEW for 2025, the TempTag's max/min memory function makes it the ideal thermometer for users looking to record the highest and lowest temperatures.

Measuring temperature over the range of -20 to 60 °C with a resolution of 0.1/1 °C, the TempTag's clear LCD display and °C/°F switchable function make it a versatile thermometer for various applications.

The TempTag is powered by a single CR2032 battery with a life expectancy of 10,000 hours normal use.

This compact unit is available in three colours: white, red or blue. Each unit incorporates a hook into the design for easy wall mounting.

Order code	Description
810-241	TempTag thermometer - white
810-244	TempTag thermometer - red
810-245	TempTag thermometer - blue

NEW



MAX/
MIN

IP65

Specification	TempTag
Range	-20 to 60 °C
Resolution	0.1/1 °C
Accuracy	±1 °C between 0 to 40 °C, otherwise ±2 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	10,000 hours
Sensor type	Thermistor
Display	Custom LCD
Dimensions	10 x 38 x 54 mm
Weight	25 grams

THERMAGUARD® HIGH ACCURACY THERMOMETERS

- Two models available - single or dual external sensors
- Optional UKAS Calibration Certificate available

These high system accuracy fridge or freezer thermometers feature a large LCD display, which simultaneously display the current and max/min recorded temperatures.

Both units feature programmable audible alarms allowing the user to preset high and low temperature limits. When the alarm is active the LCD will flash. The alarm can be silenced by pressing any button.

A CalCheck 0.0 °C (±0.1 °C) function allows the user to verify the accuracy of the thermometer at any time, giving confidence that measurements are accurate. Each unit is supplied with a plastic wall bracket with built-in footstand. The magnetic mount attaches to the wall bracket and allows for easy convenient fixing to fridges and freezers.

Order code	Description
226-511	ThermaGuard 101
891-511	226-511 with UKAS Cert
226-512	ThermaGuard 102
891-512	226-512 with UKAS Cert
830-880	Protective silicone cover - black
832-590	ABS wall bracket
830-800	Magnetic mount

UKAS certificate applies to remote probe(s) only



MAX/
MIN

CAL
CHECK

IP54

2
YEAR
GUARANTEE

MADE IN
BRITAIN

Specification	ThermaGuard
Range - internal	-19.9 to 49.9 °C (101 model only)
Range - external	-39.9 to 49.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.4 °C
Battery	2 x 1.5 volt AA
Battery life	25,000 hours (normal use, w/out alarm)
Sensor type	Thermistor
Display	Custom LCD
Dimensions	29 x 73 x 96 mm
Weight	165 grams
Optional UKAS certificate of calibration available	

MEAT ROASTING & OVEN THERMOMETERS

Ø55 mm dial oven thermometer

- Indicates temperature over the range of 0 to 300 °C
- Robust stainless steel case

This stainless steel oven thermometer features a clear Ø55 mm dial with colour-coded zones. The green marker indicates the minimum temperature that commercial heated display units should be kept at.

The oven thermometer indicates temperature over the range of 0 to 300 °C in 10 °C divisions. The case measures 43 x 66 x 80 mm.

This oven thermometer can be free-standing or hung from a shelf and should be positioned in the middle of the oven for the most accurate temperature reading.



Order code	Description
800-809	Ø55 mm dial oven thermometer

Specification Dial oven thermometer

Range	0 to 300 °C
Resolution	10 °C
Accuracy	±10 °C
Dimensions	43 x 66 x 80 mm
Weight	49 grams

Ø45 mm meat dial thermometer



The meat dial thermometer incorporates a Ø45 mm dial with a Ø4 x 105 mm stainless steel pointed probe. The unit indicates temperature over the range of 0 to 120 °C in 1 °C divisions.

For accurate temperature measurement, insert the unit into the thickest part of the meat or poultry. The dial is clearly marked for beef, lamb, pork and poultry.

Order code	Description
800-804	Ø45 mm meat dial thermometer

Ø60 mm meat dial thermometer



This meat dial thermometer features a large Ø60 mm dial with a Ø5 x 102 mm stainless steel pointed probe. The unit indicates temperature over the range of 20 to 100 °C in 2 °C divisions.

For accurate temperature measurement, insert the probe into the thickest part of the meat or poultry. The dial incorporates colour-coded markers for beef, lamb, pork and poultry for fast, easy reading.

Order code	Description
800-884	Ø60 mm meat dial thermometer

Ø50 MM FRYING THERMOMETER

- Indicates temperature over the range of 0 to 300 °C
- Marked for meat, poultry and fish and chips

This frying thermometer incorporates a Ø50 mm dial and a pointed, stainless steel Ø4 x 150 mm probe. The frying thermometer indicates temperature over the range of 0 to 300 °C in 10 °C divisions.

The temperature of cooking oil is almost always between 177 °C and 190 °C although chips are better cooked at 200 °C.

Simply insert the thermometer stem into the oil for an accurate temperature reading. The dial is clearly marked for meat, poultry, fish and chips.

Each unit is supplied with a stainless steel probe holder clip, ideal for clipping onto the side of pots and pans to hold in place a temperature probe.



Order code	Description
800-805	Frying thermometer
830-220	Ø4 mm probe holder clip

- Ø4 mm probe holder clip (830-220)

FRYING OIL QUALITY TEST STRIPS

- Inexpensive, no sample preparation or special training required
- Use in cold oil under 40 °C

These Frying Oil Quality Test Strips will help you keep the quality of your fried food high, as well as helping save money by preventing the premature disposal of cooking oil. The test strips work equally well in animal, vegetable and A/V blend frying oil (shortening). They are sold in storage bottles of 100 Oil Quality Test Strips which includes an easy-to-read colour chart.

To test your fryer oil, hold the test strip by the long white end, and dip the test strip into the oil (max oil temperature 40 °C) so all of the coloured band is submerged. Hold the test strip in the oil for two seconds, then remove it and wait two minutes, next, compare the strip to the colour chart. It is recommended that the testing of the frying oil is carried out at the start of each shift/working day before the user starts to apply heat to the oil.

To ensure accuracy, the test strips should not be stored in humid conditions or in an area where they may be exposed to water or oil before use.



Order code	Description
800-890	Frying Oil Quality Test Strips x 100

DOT - DIGITAL OVEN THERMOMETER

- Programmable high alarm
- Large backlit LCD display

The DOT is an easy-to-use cooking thermometer that displays both the current temperature and alarm set temperature. Simply set the desired temperature using the buttons, insert the probe into your food, the DOT will beep, and the display will flash when the temperature is reached.

The DOT incorporates a large LCD display and loud 70dB audible alarm making it ideal for use in busy, commercial kitchens.

The unit is durable and water-resistant and is designed to either sit on a worktop using the fold out stand, or attach to an appliance using the magnetic pads.

Each unit is supplied with a 114 mm penetration probe (810-078) with a 1.2 metre stainless steel braided lead. See below for full probe specification and alternative probes.



**NEW
COLOUR**

**CHARCOAL
GREY**

IP65



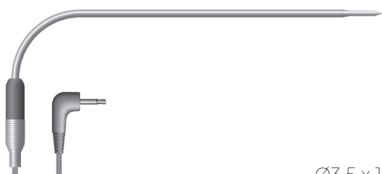

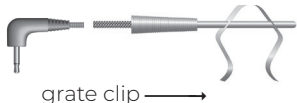

Specification Digital Oven Thermometer

Range	-50 to 300 °C
Resolution	1 °C/°F
Accuracy	±1 °C (-20 to 120 °C)
Battery & life	2 x 1.5 volt AAA - 5,000 hours
Alarm volume	70dB
Sensor type	Thermistor
Display	Custom LCD
Dimensions	24 x Ø80 mm
Weight	97 grams

Order code Description

810-031	DOT - digital oven thermometer - white
810-030	DOT - digital oven thermometer - charcoal grey
830-157	Zip wallet (see opposite page)

DOT & CHEFALARM® NTC THERMISTOR PROBES

		Order code
PENETRATION PROBE  Ø3.5 x 150 mm	This probe features a fast response, stainless steel reduced tip, which is moisture-resistant and ideal for continuous monitoring in ovens or similar. Supplied with a 1.2 metre stainless steel braided lead. <ul style="list-style-type: none"> ● Response time less than 4 seconds ● Probe temperature range -50 to 300 °C 	810-071
PENETRATION PROBE  Ø3.5 x 114 or 305 mm	This stainless steel, reduced tip probe is moisture-resistant and ideal for continuous monitoring in ovens or similar. Supplied with a 1.2 metre stainless steel braided lead. <ul style="list-style-type: none"> ● Response time less than 4 seconds ● Probe temperature range -50 to 300 °C 	810-078 (114 mm) 810-075 (305 mm)
OVEN/AIR PROBE & CLIP  grate clip → Ø3.5 x 50 mm	This oven/air probe is ideal for monitoring air temperatures. Using the grate clip provided, attach the probe to an oven rack/shelf. Supplied with a 1.2 metre stainless steel braided lead. <ul style="list-style-type: none"> ● Response time less than 4 seconds ● Probe temperature range -50 to 300 °C 	810-076 830-530 (spare clip)
MINIATURE NEEDLE PROBE  Ø1.6 x 90 mm	This stainless steel, miniature needle probe is moisture-resistant and ideal for sous vide cooking. Supplied with a 1.2 metre silicone lead. <ul style="list-style-type: none"> ● Response time less than 2 seconds ● Probe temperature range -50 to 300 °C 	810-072

Please note: the above probes are suitable for use with the DOT and ChefAlarm thermometers only

CHEFALARM® THERMOMETER & TIMER

- Interchangeable NTC thermistor probes
- Programmable high/low alarm

The ChefAlarm is a professional cooking thermometer and timer which displays the countdown/up time, current temperature and simultaneously displays both the high/low alarms and max/min temperatures.

The timer is fully programmable, allowing the user to set the countdown/up time to/from 99 hours and 59 minutes. The unit incorporates a large, easy-to-read LCD display with user selectable backlight and a loud audible alarm with adjustable volume to 92dB.

The ChefAlarm also includes a calibration function allowing the user to fine-tune the accuracy of the thermometer ($\pm 2.2^{\circ}\text{C}$). The unit is housed in a water-resistant casing and is designed to either sit on a worktop or attach to an appliance using the magnetic pads at the rear of the instrument.

Each unit is supplied in a zip wallet complete with a penetration probe (810-071) and probe holder clip.

See opposite page for full probe specification.



- **Protective zip wallet (830-157)**

Perfect for protecting and transporting your ETI instrument.
Dimensions 50 x 200 x 240 mm



Specification	ChefAlarm
Range	-50 to 300 °C
Resolution	0.1 °C/°F
Accuracy	$\pm 1^{\circ}\text{C}$ (-20 to 120 °C)
Battery & life	2 x 1.5 volt AAA - 5,000 hours
Alarm volume	<92dB
Sensor type	Thermistor
Display	Custom LCD
Dimensions	19 x 70 x 152 mm
Weight	165 grams

Order code	Description
810-041	ChefAlarm - white
830-157	Protective zip wallet

TIMEWASH® TIMER

- Encourages proper hand-washing procedures
- Easily activated by a wave of the hand

This countdown TimeWash timer is designed for use in restaurants, hospitals, schools and in any businesses where hand hygiene is critical. The unit is easy to install and can be mounted on a wall near the sink using Velcro (supplied) or double-sided tape.

The TimeWash timer is easily activated by a wave of the hand that starts the countdown timer. The large clear LCD acts as a visual progress monitor, and when the time is complete the user will hear a loud audible alarm indicating that their hand wash is complete. Incorporating eight pre-set countdown times, 20, 30 and 40 seconds, 1, 2, 3, 4 and 10 minutes, the set time button is discreetly positioned on the rear of the unit.

The TimeWash timer is a great tool to encourage employees to take the time to properly wash their hands by giving them a visual cue.



Specification	TimeWash Timer
Range (pre-set)	20, 30 and 40 seconds, 1, 2, 3, 4 and 10 minutes
Resolution	Seconds & Minutes
Accuracy	1% FS
Battery	2 x 1.5 volt AAA
Battery life	3 months
Display	Custom LCD
Dimensions	20 x 91 x 101 mm
Weight	130 grams

Order code	Description
806-201	TimeWash timer

DIGITAL KITCHEN TIMERS

Countdown/up timer - mins & secs



This countdown/up timer incorporates a louder than average 70 dB audible alarm. The timer is fully programmable, allowing the user to set the time up to 99 minutes and 59 seconds.

The unit is powered by one AAA battery and is designed to sit on a worktop or be attached to an appliance via the magnetic pad at the rear of the instrument.

Order code	Description
806-101	Countdown/up timer

Countdown/up timer - hours, mins & secs



This countdown/up timer incorporates a louder than average 80 dB audible alarm. The timer is fully programmable, allowing the user to set the time up to 99 minutes and 59 seconds or 19 hours and 59 minutes.

The unit is powered by one AAA battery and is designed to sit on a worktop or be attached to an appliance via the magnetic pad at the rear of the instrument.

Order code	Description
806-105	Countdown/up timer

Water-resistant countdown timer



This countdown timer is water-resistant to IP65 and features a large digital display and audible alarm with variable volume control, allowing the user to set up to a maximum volume of 95 dB.

The keypad allows the user to set times up to 99 hours, 99 minutes and 99 seconds. The timer incorporates magnetic pads and a keyhole slot for wall-mounting or attaching to an appliance. The unit measures 22 x 89 x 130 mm and is powered by two AAA batteries.

Order code	Description
806-150	Water-resistant countdown timer

Extra Big & Loud timer



The Extra Big & Loud timer features a rugged housing and is water-resistant to IP65. It includes a variable volume control, allowing the user to set up to a maximum volume of 110 dB - ideal in busy professional kitchens.

When a countdown alarm sounds, the count up timer starts so you will see how much time elapses after your alarm. The memory keeps your last countdown setting. The timer incorporates two magnetic pads and a flip-out stand. The unit measures 28 x 90 x 130 mm and is powered by a 9 volt PP3 battery.

Order code	Description
806-160	Extra Big & Loud timer

DISHTEMP® THERMOMETER

- Simulates maximum plate surface temperatures
- Waterproof to IP66
- HACCP compatible
- FREE traceable certificate of calibration

The DishTemp thermometer simulates a plate as it's cleaned and sanitised in a commercial dishwasher, accurately recording the maximum surface temperature at the touch of a single button, eliminating the need for costly and inaccurate test strips and stem thermometers that do not stay in place or record the surface temperature of a plate.

The instrument indicates temperature over the range of 0 to 90 °C with a resolution of 0.1 °C/°F and an accuracy of ±0.5 °C. Incorporating a durable water-tight seal, the DishTemp thermometer is waterproof to IP66 and is supplied complete with a FREE one point (71 °C) traceable certificate of calibration.



model available
see page 61



- **Stainless steel wall bracket (832-280)**
This handy, stainless steel, wall-mounted thermometer holder lets you store your DishTemp thermometer safely - wherever you need it.



Order code	Description
810-280	DishTemp thermometer
832-280	Stainless steel wall bracket

Specification	DishTemp
Range	0 to 90 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	5,000 hours
Display	Custom LCD
Dimensions	14 x Ø127 mm
Weight	120 grams
FREE traceable certificate of calibration included	

CATERING

ANTI-BACTERIAL WIPES

Anti-Bacterial wipes are ideal for reducing harmful bacteria in the food industry. Each wipe is pre-saturated with a broad spectrum anti-bacterial solution that is odourless and does not taint food. The wipes are effective against a wide range of bacteria including listeria and salmonella.

Single-use Probe Wipes



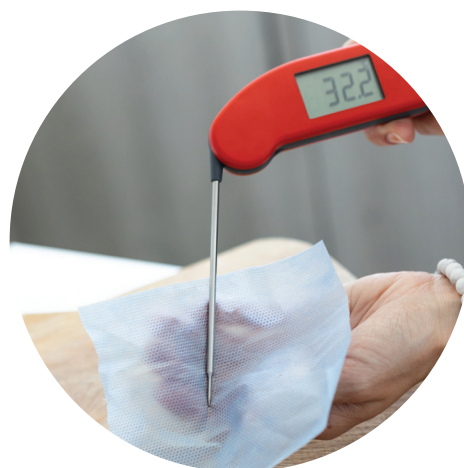
These convenient, single-use, white, anti-bacterial Wipes are safe and easy-to-use and designed for one-time use.

836-220 Box of 100, each wipe measures 30 x 60 mm

Order code Description

836-220 Box of 100 single-use Probe Wipes

Tubs of 180 QAC free Probe Wipes



This stainless steel wall bracket enables a single tub of 180 wipes to be conveniently positioned to dispense wipes at work-stations and counters, or wherever the user requires.

- **Stainless steel wall bracket 832-305**



Order code Description

836-050 Carton x 6 tubs of Probe Wipes

832-305 S/steel wall bracket for single tub

Each tub contains 180 blue QAC free, anti-bacterial Probe Wipes that measure 130 x 130 mm.

The tubs are supplied in cartons of six tubs of 180 Probe Wipes.

An optional wall bracket is available, enabling a single tub of wipes to be conveniently positioned. (screws not supplied).

ACCESSORIES

Wall brackets

These handy, stainless steel or ABS wall brackets allow users to store specific thermometers safely when not in use (screws not supplied).



Order code	Description
832-015	WP Therna series s/s wall bracket
832-050	Therna series s/s wall bracket & cover
832-590	ThermaGuard/WiFi ABS wall bracket

Protective silicone covers

Protect your instruments against accidental damage by fitting them with a protective cover. We offer a wide range of protective silicone covers tailored to fit most of our instruments. Selected covers are available in red, yellow, blue, green, black and white.



Order code	Description
830-221	Therna series - white*
830-231	WP Therna series - white*
830-258	WP Therna series inc. magnet
830-260	Thermapen Classic
830-455	Thermapen One
830-270	ThermaData Logger
830-431	TempTest 1 & 2 - white*
830-880	ThermaGuard/ThermaData WiFi

*For other colours see page 9 for TempTest, page 14 for Therna Series or page 20 for Waterproof Therna Series

Waterproof protective pouches

These fully waterproof protective pouches are manufactured from flexible PVC that can be used to protect a variety of instruments in damp or wet environments. Each pouch measures 125 x 230 mm.

The 830-410 is supplied with a single integral lead, thermocouple (T/C) plug and socket. The 830-411 with a single integral lead, thermistor plug and socket and the 830-442 with dual integral leads, thermocouple (T/C) plugs and sockets. For more information contact our sales office or visit our website.



Order code	Description
830-410	PVC pouch K T/C lead
830-442	PVC pouch & 2 K T/C leads
830-411	PVC pouch & thermistor lead

Temperature log book



Each log book allows the user to enter three readings per day consisting of the temperature, time and initials of the person responsible for recording the data.



Order code	Description
831-100	A5 temperature log book
831-105	A5 log book - pack of 10



REMOTE TEMPERATURE MONITORING

Automating your processes using data loggers eliminates time-consuming temperature checks. In addition, it will enable you to keep a more accurate, organised and accessible data archive.

We have a range of loggers that suit different budgets and applications, from blind loggers ideal for transportation to WiFi loggers that send notifications for ultimate security. And with free user-friendly software available, integrating a new paperless system into your business couldn't be easier.

REMOTE MONITORING BENEFITS

There are many benefits to choosing data loggers, including:

- Save time and money on manual labour
- Add a time and date stamp to your readings
- Prevent recordings from being falsified or written incorrectly
- Keep a more organised and accessible data archive
- Enable swift corrective actions to avoid costly damages

USB DATA LOGGERS

USB data loggers automatically take readings at programmed intervals. The readings are stored within the instrument and can then be transferred to your PC using a USB connector.

These are most commonly used for ambient readings, such as fridge/freezer temperatures and room temperature or humidity. But they can also be used to track the internal temperature of perishables over a period of time, such as during transportation.

WIFI DATA LOGGERS

Like USB data loggers, WiFi loggers take readings at programmed intervals. But instead of needing to connect to a computer to download the readings, they are automatically transmitted using Wi-Fi.

The benefit of this is that users can monitor the results in real time, even receiving notifications for out-of-range readings. This provides the highest level of security where temperatures are critical, enabling corrective actions to be taken instantly and preventing costly damages.

FREE SOFTWARE

ThermaData® Studio is compatible with all products released before 2025.

ThermaData® Hub is new for 2025. See pages 62 and 63 for more information. For compatible products, look for the icon displayed on each product page. Both software platforms are free to download from our website.



THERMAPOD USB LOGGER

- No software required to download data
- Records up to 7,500 readings
- Splashproof to IP65
- Temperature range -25 to 85 °C

NEW for 2025, The ThermaPod USB logger is the ideal choice for logistics and transportation. With no software required, the logger will generate its own PDF report when plugged into a computer, allowing the user to easily accept or reject a delivery.

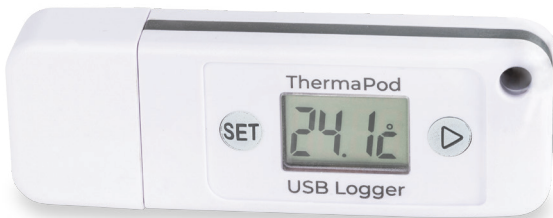
The ThermaPod measures temperatures over the range of -25 to 85 °C with a 0.1 °C resolution and is splashproof to IP65. Using the two buttons on either side of the LCD screen, the user can program set intervals between six and 255 minutes. The logger will record up to a maximum of 7,500 readings.

Each unit is powered by a 3-volt CR2032 battery that gives up to 10,000 hours of continuous use. When idle, the display will automatically power off after 30 seconds, maximising battery life.

The unit incorporates an LED that will flash green when the data function is on and red when it is connected to a computer.



NEW



REMOTE MONITORING

- Download data instantly

Simply plug the ThermaPod USB Logger into a computer to generate a PDF report



Example of PDF file

AUTO
OFF

IP65



Order code	Description
825-290	ThermaPod USB Logger

Specification	ThermaPod USB Logger
Range	-25 to 85 °C
Resolution	0.1 °C
Accuracy	±0.5 °C (-10 to 70 °C) otherwise ±1 °C
Memory	7,500 readings
Sample rate	6 to 255 minutes
Battery	3 volt CR2032 lithium coin cell
Battery life	10,000 hours
Display	Custom LCD
Dimensions	14.5 x 26 x 76 mm
Weight	26 grams

THERMADATA® LITE LOGGER

- LED shows if limits are exceeded
- Customised high/low alarm facility
- Ideal for storage & transportation
- FREE software to download



The ThermoData Lite logger is a cost effective, self-contained temperature data logger or blind recording thermometer that is designed to record the temperature of the surrounding environment. The ThermoData Lite logger is housed in a water-resistant polyethylene case and incorporates two LED status indicators.

The ThermoData Hub software allows the user to programme the logging sample/interval rate (6 seconds to 255 minutes), the real-time clock, °C/°F, delayed start (maximum 23 hours, 59 minutes), push-button start, temperature start or time start and a 31-character user ID. The software also incorporates a password protected calibration adjustment feature that allows the user to check the calibration of loggers and make minor adjustments of 0.1 °C (±3 °C).

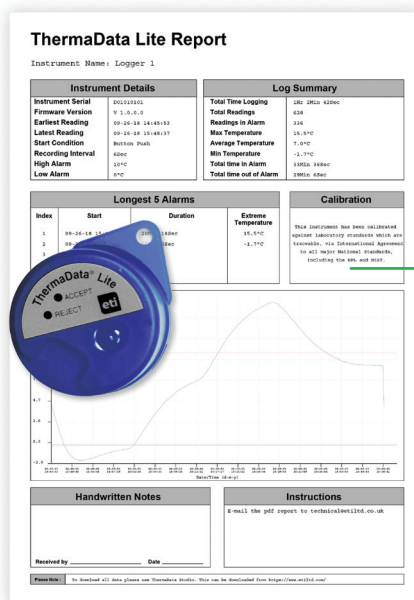
The user can also set, within the software, high and low alarm values for a specific application. A push of the button will allow a simple visual inspection of the unit to show if either of these limits have been exceeded. A flashing red LED will warn the user that the alarm limits have been exceeded (reject) or a flashing green LED will advise the user that the alarm limits have not been exceeded (accept).

NEW THERMADATA® HUB SOFTWARE

ThermoData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

For more information, see pages 62 and 63.



● Colour-coded data loggers

Available in a variety of coloured cases; blue, yellow, white and black. These colour-coded cases help to prevent cross contamination by allowing the user to allocate a colour to a specific product or application. Other applications include different coloured loggers to make it easier to identify, for example; the building and construction industry where loggers can often blend in with the environment.

● Example of PDF file

The automatic report generated shows key information such as instrument details, log summary and longest alarms. The PDF also displays an intuitive graph for easy visual indication.



Order code	Description
293-010	ThermoData Lite - white
293-020	ThermoData Lite - yellow
293-050	ThermoData Lite - blue
293-070	ThermoData Lite - black
812-510	USB-C® lead

Specification	ThermoData Lite
Range	-40 to 85 °C
Resolution	0.1 °C
Accuracy	±0.5 °C
Memory	16,000
Sample rate	6 seconds to 255 minutes
Battery	3.6 volt ½ AA lithium
Battery life	Minimum 3 years
Dimensions	Ø55 x 25 mm
Weight	40 grams
Optional UKAS Certificate of Calibration available	

THERMADATA® STAINLESS STEEL PRO LOGGERS

- Integral USB interface for setup & download
- Auto PDF summary
- High temperature range -20 to 125 °C
- 6 probe options available

These ThermaData Stainless Steel Pro loggers are ideal for food, pharmaceutical and other applications where a high temperature data logger is required. The Stainless Steel Pro is housed in a waterproof, food grade 316 stainless steel case to protect the logger from corrosion, impact and moisture (IP66/67).

The ThermaData Hub software allows the user to programme the logging sample/interval rate (1 second to 255 minutes), the real-time clock, °C/°F, delayed start (maximum 23 hours, 59 minutes), software start, temperature start or time start and a 31-character user ID. The user can also set high and low alarm values for a specific application.

The Stainless Steel Pro is available in six options; without a probe, with a Ø3.3 x 50 mm penetration probe, a Ø4.5 x 100 mm, Ø4.5 x 150 mm, Ø4.5 x 200 mm penetration probe all with a Ø3.3 reduced tip. In addition to the five standard options there is also a Ø1.8 x 20 mm fast response probe variant which is ideal for applications that require a fast ambient reading i.e. Dishwashers. Each logger is supplied with a one metre USB-C® lead.

NEW THERMADATA® HUB SOFTWARE

ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

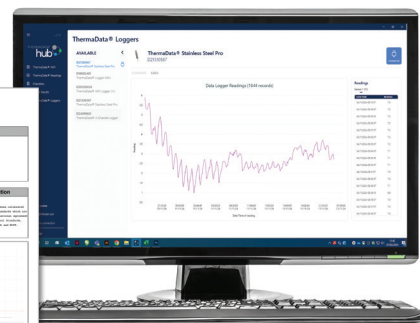
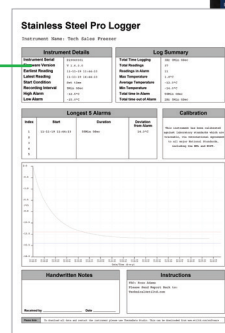
For more information, see pages 62 and 63.



REMOTE MONITORING

Example of PDF file

- **USB connection point**
Simply unscrew the end cap to access the USB-C connector. Using the supplied USB-C® lead this allows the user to connect the logger to a PC and upload any data collected.



Order code	Description
294-900	Stainless steel logger - without probe
294-940	Stainless steel logger - 20 mm FR probe
294-930	Stainless steel logger - 50 mm probe
294-931	Stainless steel logger - 100 mm probe
294-932	Stainless steel logger - 150 mm probe
294-933	Stainless steel logger - 200 mm probe
Supplied with a one metre USB-C® lead	

Specification	ThermaData Stainless Steel Pro
Range	-20 to 125 °C
Resolution	0.1 °C
Accuracy	±0.5 °C
Memory	16,000 temperature readings
Sample rate	1 second to 255 minutes
Battery	3.6 volt 2/3 AA lithium
Battery life	3 years (based on 6 sec sample rate)
Dimensions	Ø22.5 x 129 mm (excluding probe)
Weight	170 grams - model dependant

THERMADATA® THERMISTOR LOGGER

- Waterproof housing offering IP66/67 protection
- Temperature range -40 to 125 °C (model dependent)
- Resolution 0.1 °C, high accuracy ± 0.4 °C
- Capture multiple logging processes in a single download

The NEW ThermaData Thermistor Logger is part of a comprehensive range of portable data loggers utilising the latest in electronic technology and housed in a waterproof, ergonomic case designed to meet IP66/67 protection.

The unit is available in two models, and offers the choice between internal and external temperature sensors/ probes. The remote temperature probes are supplied with a one metre PVC/PFA lead.

Each logger incorporates a red and green LED, the flashing green LED indicates that the logger is active/ logging, and the flashing red LED indicates that your customised preset alarms have been exceeded.

The ThermaData Thermistor Logger measures temperature over the range of -40 to 125 °C (model dependent) with a 0.1 °C resolution. At programmable intervals the logger will record the temperature, up to a maximum of 120,000 readings.

A multi-logging feature also allows this instrument to be started and stopped, in order to map multiple processes, without having to download the data each time.

Featuring an easy-to-read LCD, the unit displays temperature, high and low limits and max/min recorded temperatures.

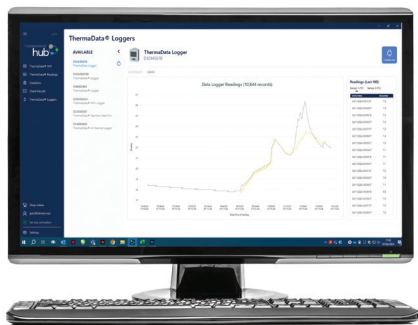


NEW THERMADATA® HUB SOFTWARE

ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

For more information, see pages 62 and 63.



USB-C® lead

Allow easy connection to any PC with a standard USB port socket. Simply connect lead to the data logger, install software on your PC and go! Sold separately (812-510).

Order code	Description
291-001	Model TD
291-011	Model TD1F
812-510	USB-C lead for data loggers



Specification	ThermaData Thermistor Logger
Range - internal	-20 to 85 °C - model dependent
Range - external	-40 to 125 °C - model dependent
Operating range	-20 to 85 °C
Resolution	0.1 °C
Accuracy	± 0.4 °C
Memory	120,000
Sample rate	1 second to 240 minutes
Battery	1 x 2/3 AA Li-CoCl ₂
Battery life	1 year (1 minute sample rate)
Sensor type	Thermistor
Display	12 mm LCD
Dimensions	67 x 84 x 30.5 mm
Weight	120 grams (TD) / 133 grams (TD1F)
Optional UKAS Certificate of Calibration available	

THERMADATA® THERMOCOUPLE LOGGER

- Waterproof housing offering IP66/67 protection
- Temperature range -100 to 1372 °C
- Two channel type K thermocouple input
- Capture multiple logging processes in a single download

The NEW ThermaData Thermocouple Logger is part of a comprehensive range of portable data loggers utilising the latest in electronic technology and housed in waterproof, ergonomic case designed to meet IP66/67 protection.

This unit features dual type K thermocouple inputs and measures temperatures ranging from -100 to 1372 °C. It provides a resolution of 0.1 °C, automatically switching to 1 °C for readings between 300 and 1372 °C. At programmable intervals, it can record and store up to 120,000 temperature readings.

Each logger incorporates a red and green LED, the flashing green LED indicates that the logger is active/ logging, and the flashing red LED indicates that your customised preset alarms have been exceeded.

A multi-logging feature also allows this instrument to be started and stopped, in order to map multiple processes, without having to download the data each time.

Featuring an easy-to-read LCD, the unit displays temperature, high and low limits, max/min recorded temperatures and comes with FREE downloadable software and traceable certificate of calibration.

We offer an extensive range of interchangeable type K thermocouple probes for a variety of different applications, see pages 77 to 83.



Order code	Description
291-121	Model TD2TC - Type K
812-510	USB-C lead for data loggers
ThermaData Thermocouple loggers are exclusive of probes	

NEW



NEW THERMADATA® HUB SOFTWARE

ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

For more information, see pages 62 and 63.



Specification	ThermaData Thermocouple Logger
Range	-100 to 1372 °C
Operating range	-20 to 50°C
Resolution	0.1 °C to 300 °C thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Memory	120,000
Sample rate	1 second to 240 minutes
Battery	1 x 2/3 AA Li-CoCl2
Battery life	1 year (1 minute sample rate)
Sensor type	Thermocouple
Display	12 mm LCD
Dimensions	67 x 84 x 30.5 mm
Weight	137 grams
FREE traceable certificate of calibration included	

REMOTE MONITORING

THERMADATA® 4 CHANNEL LOGGER

- Four channel type K thermocouple input
- Programmable high/low audible alarm
- Simultaneously measure four probe temperatures
- Wide temperature range -99.9 to 1372 °C

The ThermaData 4 Channel Logger is housed in an ergonomic, ABS case that includes Biomaster product protection to reduce bacterial growth. The unit is waterproof to IP67 thanks to an integrated rubber seal, making it more durable in harsh environments and less prone to damage.

The 4 Channel Logger measures temperature over the range of -99.9 to 1372 °C with a 0.1 °C resolution, auto-ranging to 1 °C over the range of 300 to 1372 °C. At programmable intervals the logger will record the temperature, up to a maximum of 64,000 readings (16,000 per channel).

A multi logging feature also allows this instrument to be started and stopped in order to map multiple processes, without downloading the data each time.

Featuring an easy-to-read LCD, the 4 Channel Logger displays temperature, high and low limits, max/min recorded temperatures and volume level. The LCD can either be toggled from T1 & T2 to T3 & T4, or locked, using the DISPLAY / LOCK button.

Programmable audible alarms allows the user to preset high and low temperature limits for any logging process. The alarm can be silenced by pressing MUTE on the front of the instrument.

Each instrument is supplied with a USB-C® lead, FREE downloadable software and traceable certificate of calibration.

We offer an extensive range of interchangeable type K thermocouple probes for a variety of different applications, see pages 77 to 83.



General purpose probe (133-158)

NEW THERMADATA® HUB SOFTWARE

ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

For more information, see pages 62 and 63.



Order code	Description
291-401	ThermaData 4 Channel Logger
830-258	Protective silicone cover - black
The ThermaData 4 Channel Logger is exclusive of probes	



Specification	ThermaData 4 Channel Logger
Range	-99.9 to 1372 °C
Operating range	-20 to 50°C
Resolution	0.1 °C to 299.9 °C thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Memory	64,000 (4 x 16,000)
Sample rate	1 second to 255 minutes
Battery	3 x 1.5 volt AAA
Battery life	1 year (1 minute sample rate)
Sensor type	Type K thermocouple
Display	Custom LCD
Dimensions	32 x 71 x 142 mm
Weight	230 grams
FREE traceable certificate of calibration included	

THERMADATA® LOGGERS

- Waterproof housing offering IP66/67 protection
- Meets EN 12830:1999, S & T, C & D, 1, 0.5

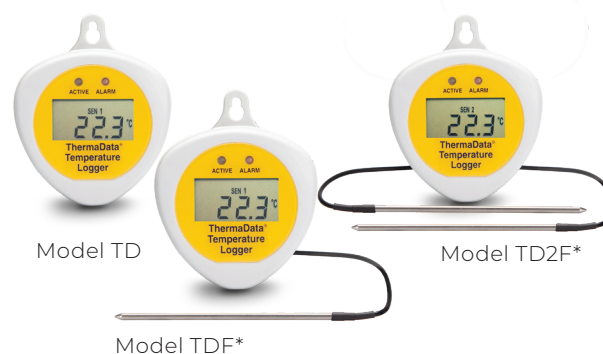
The ThermaData logger consists of a comprehensive range of portable data loggers utilising the latest in electronic technology. Housed in waterproof, ergonomic cases that are designed to meet IP66/67 protection.

Offering the choice of either blind data loggers or data loggers with an LCD display. Other options include internal and external temperature sensors/probes. Remote temperature probes come with a one metre PVC/PFA lead. Visit our website for more models and options.

Each logger incorporates a red and green LED. The flashing green LED shows that the logger is active/logging. The flashing red LED indicates that your customised preset alarms have been exceeded.

* Ø3.3 x 100 mm probe with 1 metre PVC/PFA lead

Order code	Description
296-001	Model TD - LCD w/internal sensor
296-101	Model TDF - LCD w/external fixed sensor
296-111	Model TD2F - LCD w/two external fixed sensors



Specification	All models
Range - internal	-30 to 85 °C - TD model
Range - external	-40 to 125 °C - TDF/TD2F
Resolution	0.1 °C
Accuracy	±0.5 °C (@ ambient -10 to 85 °C)
Sensor type	NTC thermistor
Memory	Up to 4,000 (TD/TDF) Up to 2 x 2,000 readings (TD2F)
Sample rate	6 seconds to 255 minutes
Battery & life	3.6 volt ½ AA lithium (approx. 1.5 years)
Display - blind	2 LED's
Display - LCD	10 mm LCD/2 LED's
Dimensions	Ø76 x 23 mm
Weight	71 to 113 grams - model dependant

An optional protective silicone cover (white) is available (830-270) see page 41 for details

THERMADATA® LOGGERS FOR HUMIDITY

- LCD display toggles between humidity & temperature
- Records up to a maximum of 16,000 readings



Order code	Description
295-061	Blind model HTB - internal sensors
296-061	LCD model HTD - internal sensors
295-062	Blind model HTBF - external sensors
296-062	LCD model HTDF - external sensors
293-804	USB cradle & magnet
890-111	*UKAS 3-point certificate

*Price when purchased with a new instrument

USB CRADLE & START MAGNET

Each USB cradle is supplied with a one metre PVC lead complete with a start magnet (293-804)



Specification	Temperature	Humidity
Range	-20 to 85 °C	0 to 100 %rh
Resolution	0.1 °C	0.1 %rh
Accuracy	±0.5 °C (0 to 45 °C) ±1 °C (-20 to 70 °C) ±1.5 °C (70 to 85 °C)	±3 %rh @ 25 °C (10 to 90 %rh)
Hysteresis	N/A	±1 %rh
Sensor type	Silicon bandgap	Capacitance polymer
Memory	2 x 8,000 readings	
Sample rate	6 seconds to 255 minutes	
Battery & life	3.6 volt ½ AA lithium - minimum 2 years	
Display	10 mm LCD - toggles every 6 seconds/2 LED's	
Dimensions	Ø76 x 23 mm	
Weight	80 grams approx. - model dependant	

Optional UKAS Certificate of Calibration available

THERMADATA® WIFI LOGGERS FOR TEMPERATURE

- Receive notifications when alarm limits are exceeded
- Access recorded data worldwide via internet
- FREE software with NO ongoing or subscription charges
- Programmable high/low alarms

The new ThermaData WiFi Loggers now feature improved connectivity and convenience. With enhanced WiFi reliability, they stay connected at all times, ensuring uninterrupted data logging. An enhanced Bluetooth pairing setup also simplifies the initial setup, making it quicker and more user-friendly. These battery-powered loggers offer a cost-effective temperature monitoring system that remotely records the temperature of appliances and buildings. Each logger transmits the recorded data to a Wi-Fi router connected to the internet. This data can then be accessed and viewed from anywhere in the world using a PC, laptop, or tablet.

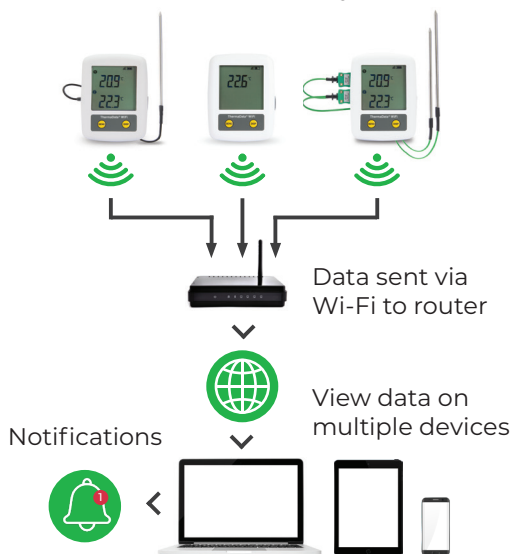
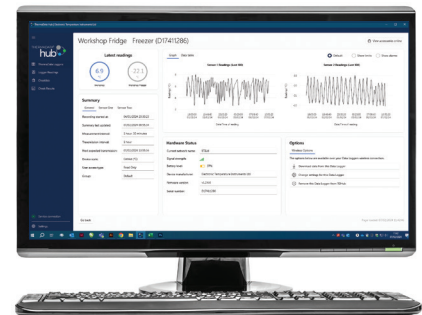
The loggers have a range limited to the specification of the users Wi-Fi router. Each logger has an intuitive LCD displaying; temperature, Wi-Fi and internet connection status, max/min recorded temperatures, alarm status and battery life.

At programmable intervals, the loggers will record temperature from both sensors, recording up to a maximum of 36,000 readings (18,000 from each sensor). The temperature value on the LCD display on each logger will flash to indicate that the customised preset alarms have been exceeded. Each logger communicates directly to the Wi-Fi router at set intervals to push data through the internet into ThermaData Hub. The information is available to be analysed and exported into a report format. Each unit is supplied with a USB lead and FREE wall bracket. ThermaData Hub software is available to download FREE from our website and is licence free, with no ongoing or subscription charges.

HOW DOES THE THERMADATA WIFI LOGGER WORK?

Using the unique ID of each logger, ThermaData Hub creates a secure connection between logger and software, which can be accessed and viewed anytime and anywhere with an internet connection. Each logger communicates directly to the Wi-Fi router at set intervals to push data through the internet into ThermaData Hub. The information is available to be analysed and exported into a report format

Simple setup & easy-to-use software makes the ThermaData WiFi loggers perfect for HACCP analysis



Please note: Wi-Fi routers have a range of 100 metres depending on the make, model, capabilities and setup of the router. Environmental conditions may also affect the signal strength.

NEW THERMADATA® HUB SOFTWARE

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With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

For more information, see pages 62 and 63.

THERMADATA® WIFI ONE/TWO CHANNEL THERMISTOR LOGGERS

The ThermaData WiFi thermistor loggers can be supplied with one internal sensor or a stainless steel general purpose probe (Ø3.3 x 100 mm) with a one metre PUR/PVC fixed lead. **Please Note:** Model TD1F is supplied with one external remote probe and an internal sensor.

Specification	TD	TD1F
Range - internal	0 to 50 °C	0 to 50 °C
Range - external	N/A	-40 to 125 °C
Resolution	0.1 °C/°F	
Accuracy	±0.5 °C	
Memory	36,000 readings	2 x 18,000 readings
Sample rate	6 seconds to 330 minutes	
Battery & life	2 x 1.5 volt AA - approximately 1 year	
Display	13.4 mm LCD	
Dimensions	29 x 72.5 x 96 mm	
Weight	165 grams model dependant	
FREE traceable certificate of calibration included		



Order code	Description
297-001	Model TD
297-011	Model TD1F*
832-590 ABS wall bracket also included (see page 41)	
*Inclusive of thermistor probe(s)	

NEW THERMADATA® HUB SOFTWARE

For more information, see pages 62 and 63.

THERMADATA® WIFI TWO CHANNEL THERMOCOUPLE LOGGERS

The ThermaData WiFi thermocouple loggers are available in two sensor types, type K and type T thermocouple.

Please Note: Each logger is supplied exclusive of probes, see below for a small selection of probes available or for alternative designs see page 83.










Specification	ThermaData WiFi - Thermocouple
Range - type K	-100 to 1372 °C
Range - type T	-100 to 400 °C
Resolution	0.1 °C/°F to 999.9 thereafter 1 °C/°F
Accuracy	±0.4 °C ±0.1 % of reading
Memory	2 x 18,000 readings
Sample rate	6 seconds to 330 minutes
Battery & life	2 x 1.5 volt AA - approximately 1 year
Display	13.4 mm LCD
Dimensions	29 x 72.5 x 96 mm
Weight	165 grams
FREE traceable certificate of calibration included	



General purpose probes (133-158)



Order code	Description
297-121	Model TD2TC - type K
297-721	Model TD2TC - type T
830-800	Magnetic mount
830-880	Protective cover - black
Exclusive of thermocouple probes	

		Order code
GENERAL PURPOSE PROBE    Ø3.3 x 100 mm	This stainless steel probe is suitable for a wide range of applications. Supplied with a one metre PTFE insulated lead and connector. <ul style="list-style-type: none"> Response time less than 5 seconds Probe temperature range -75 to 250 °C 	133-158 (1000 mm) 133-220 (3000 mm) 133-222 (5000 mm)
FOOD SIMULANT PROBE    9 x 100 x 100 mm	This polypropylene simulant probe is designed for use in refrigeration, food storage and chill cabinets. Supplied with a one metre PTFE insulated lead and connector. <ul style="list-style-type: none"> Probe temperature range -20 to 100 °C 	133-350 (1000 mm) 133-352 (3000 mm) 133-354 (5000 mm)
HEAVY-DUTY PTFE WIRE PROBE    Ø2.4 x 1000 or 2000 mm	This heavy-duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. <ul style="list-style-type: none"> Response time less than 1 second Probe temperature range 75 to 250 °C 	133-372 (1000 mm) 133-373 (2000 mm)

Please note: for type T thermocouple probes, replace the third digit (3) of the order code with the number 7

THERMADATA® PHARM WIFI LOGGERS

- External sensor designed to simulate fridge contents temperature
- FREE software with NO ongoing or subscription charges
- Access recorded data worldwide via internet
- Programmable high/low alarms

The new ThermaData Pharm WiFi Loggers now feature improved connectivity and convenience. With enhanced WiFi reliability, they stay connected at all times, ensuring uninterrupted data logging. An enhanced Bluetooth pairing setup also simplifies the initial setup, making it quicker and more user-friendly.

The loggers are a battery powered, cost-effective, temperature monitoring system that remotely records storage and transportation temperatures of perishable items such as food, vaccines and medication.

Each logger has an intuitive LCD displaying; temperature, Wi-Fi connection status, max/min recorded temperatures, alarm status and battery life. Simple to set up, the logger once up and running will transmit recorded data to a Wi-Fi router connected to the internet which can then be accessed and viewed from a PC, laptop or tablet anywhere in the world.

At programmable intervals, the loggers will record temperature from both sensors, recording up to a maximum of 36,000 readings (18,000 from each sensor). The temperature value on the LCD display on each logger will flash to indicate that the customised preset alarms have been exceeded. Each logger communicates directly to the Wi-Fi router at set intervals to push data through the internet into ThermaData Hub. The information is available to be analysed and exported into a report format. Each unit is supplied with a USB lead and free wall bracket. ThermaData Hub software is available to download FREE from our website with no ongoing or subscription charges.

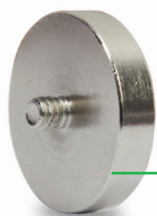
The thermistor probe is encased in a sealed bottle and incorporates a two metre PUR/PVC fixed lead. To begin monitoring, simply unscrew and top up with Glycol solution (50 ml bottle supplied). **Please Note:** Model TD1F Pharm is supplied with one external remote probe and an internal sensor. For more information contact our sales office.

**NEW
MODEL**



REMOTE MONITORING

Simple setup & easy-to-use software makes the ThermaData Pharm WiFi loggers perfect for fridge/freezer monitoring



Magnetic mount (830-800)

NEW THERMADATA® HUB SOFTWARE
For more information, see pages 62 and 63.



Order code	Description
297-011-PHM	Model TD1F c/w Pharm probe
830-880	Protective silicone cover - black
832-590	Replacement ABS wall bracket
830-800	Magnetic mount
816-035	Replacement Glycol solution - 50 ml
Inclusive of thermistor probe(s) & USB lead	

Specification	Model TD1F
Range - internal	0 to 50 °C
Range - external	-40 to 70 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C
Memory	2 x 18,000 readings
Sample rate	6 seconds to 330 minutes
Battery & life	2 x 1.5 volt AA - approx. 1 year
Display	13.4 mm LCD
Dimensions	29 x 72.5 x 96 mm
Weight	165 grams
FREE traceable certificate of calibration included	

Please note: Wi-Fi routers have a range of 100 metres depending on the make, model, capabilities and setup of the router. Environmental conditions may also affect the signal strength.

THERMADATA® WIFI LOGGERS FOR HUMIDITY

- FREE software with NO ongoing or subscription charges
- Simultaneously displays humidity & temperature
- Access recorded data worldwide via internet
- Programmable high/low alarms

The new ThermaData WiFi Humidity Loggers now feature improved connectivity and convenience. With enhanced WiFi reliability, they stay connected at all times, ensuring uninterrupted data logging. An enhanced Bluetooth pairing setup also simplifies the initial setup, making it quicker and more user-friendly.

These loggers measure and record both temperature and relative humidity (%rh) over the range of 0 to 50 °C (HTD), -20 to 85 °C (HD1F) and 0 to 100 %rh. At programmable intervals, the loggers will record simultaneously both temperature and humidity, recording up to a maximum of 36,000 readings (18,000 humidity and 18,000 temperature).

The loggers incorporate a large LCD that displays temperature and humidity from the internal sensors. The temperature value on the LCD display on each logger will flash to indicate that the customised preset alarms have been exceeded.

The humidity and temperature ThermaData WiFi loggers are suitable for a diverse range of applications which include HVAC climate monitoring, QA monitoring of storage areas etc.



NEW THERMADATA® HUB SOFTWARE

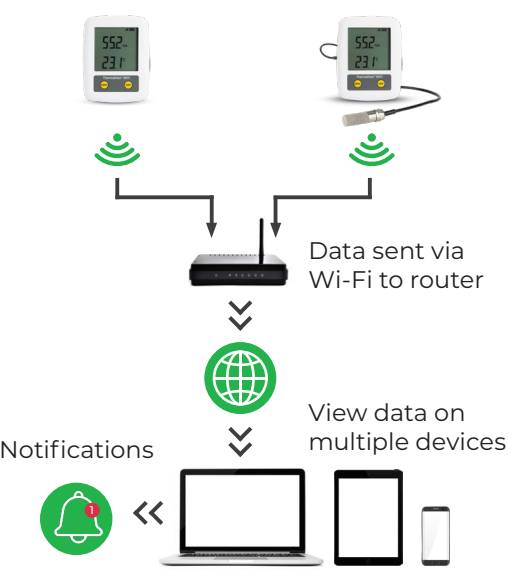
ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures. Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.



For more information, see pages 62 and 63.

HOW DOES THE THERMADATA WIFI HTD LOGGER WORK?



Order code	Description
297-621	ThermaData WiFi HTD
297-622	ThermaData WiFi HD1F
830-880	Protective silicone cover - black
830-800	Magnetic mount
890-111	UKAS 3-point certificate available
*when purchased with a new Logger	

Specification	Temperature	Humidity
Range - HTD	0 to 50 °C	0 to 100 %rh
Range - HD1F	-20 to 85 °C	0 to 100 %rh
Resolution	0.1 °C/°F	0.1 %rh
Accuracy	±0.5 °C (0 to 50 °C)	±3 %rh @ 25 °C (10 to 90 %rh) ±4 %rh @ 25 °C (0 to 100 %rh)
Hysteresis	N/A	±1 %rh
Sensor type	Silicon bandgap	Capacitance polymer
Memory	2 x 18,000 readings	
Sample rate	6 seconds to 330 minutes	
Battery & life	2 x 1.5 volt AA - approx. 10 months @ 20 °C	
Display	13.4 mm LCD	
Dimensions	29 x 72.5 x 96 mm	
Weight	165 grams	

Optional UKAS Certificate of Calibration available

REMOTE MONITORING

BLUETOOTH® THERMOMETERS



Digitalising your temperature monitoring provides the most accurate and organised data archive you could have, all whilst saving huge amounts of time and money.

Instead of manually writing temperatures in paper log books, accurate readings will be measured at the touch of a button. Rather than combing through physical archives to check historical data, you can instantly pull up recordings from any date. And with free user-friendly software or the option to integrate into an existing system, employee training couldn't be easier.

Our range of *Bluetooth®* thermometers includes temperature probes and infrared thermometers, with plenty of options available for you to find the right fit for your application.

BLUETOOTH BENEFITS

There are many benefits to switching to Bluetooth thermometers, including:

- Improved data accuracy and integrity
- Save time recording checks
- Organised and accessible data archive
- Time and date stamp on every reading

HOW BLUETOOTH THERMOMETERS WORK

Bluetooth thermometers pair with an app on your phone or tablet to store your temperature recordings. As you take temperatures with your thermometer, it will either manually or automatically transfer the readings to your device via Bluetooth, where you can view and analyse your data.

Some Bluetooth thermometers are designed to be set in place and will automatically record temperatures at your chosen intervals, sending each reading to your device as it records.

FREE SOFTWARE

Many of our Bluetooth thermometers are compatible with our free *ThermaData® Hub* mobile app. This allows users to complete checklists of items, with high/low limits, and prompt corrective actions for any out of range readings. Users can also view results, before generating custom .PDF reports via the *ThermaData Hub* PC Software. For more information see pages 62 & 63.



We also offer free software development kits with all of our Bluetooth products, and free end-to-end support. This enables users to integrate ETI thermometers into existing software systems.



The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by ETI is under license.

Google Play and the Google Play logo are trademarks of Google LLC. Android is a trademark of Google LLC.

Apple, the Apple logo, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc., registered in the U.S. and other countries and regions. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

THERMAPEN® ONE BLUE THERMOMETER

- New intuitive display
- Waterproof to IP67
- Securely transmits data to your smart device
- SDK & technical integration support available

The Thermapen ONE Blue combines the latest *Bluetooth®* wireless technology with the same high accuracy and precision as the Thermapen One. Simply connect to your host device (iOS or Android), probe the item to be measured and press the button to securely transmit your temperature data of up to 50 metres via a secure connection.

The casing is washable and includes Biomaster product protection that reduces bacterial growth. The Thermapen One Blue is waterproof to IP67.

The unit includes a Dot Matrix Display which when paired with a remote device, will show items on the screen alongside the temperature value. Each item can include a text line, high/low temperature limit that gives the user instant, on-screen pass/fail feedback.

Please Note: New display features only available when using the latest Software Development Kit.

The Thermapen One Blue incorporates a reduced tip, stainless steel penetration probe (Ø3.3 x 110 mm) that conveniently folds back through 180° into the side of the instrument when not in use.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen One Blue.



Order code	Description
279-607	Thermapen One Blue - grey
830-701	Silicone cover with magnet - Clear
830-704	Silicone cover with magnet - Red
832-002	Stainless steel wall bracket

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.



Dot Matrix Display

New intuitive display showing item names, high and low limits and a visual PASS or FAIL indication.



- **Protective silicone cover**
Protect your instrument against accidental damage by fitting a protective silicone cover. (830-704)



Specification	Thermapen One Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy	±0.3 °C (-19.9 to 119.9 °C) ±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Bluetooth module	BLE 5.0
Battery	1 x 1.5 volt AAA
Battery life	500 hours (without backlight)
Sensor type	K thermocouple
Dimensions	19 x 50 x 157 mm
Weight	115 grams
FREE traceable certificate of calibration included	

THERMAPEN® IR BLUE THERMOMETER

- High accuracy - ideal for HACCP procedures
- Patented, automatic 360° rotational display
- Securely transmits data to your smart device
- SDK & technical integration support available

The Thermapen IR Blue is two instruments in one compact unit. It combines the advanced technology of two ETI Bluetooth® products: the RayTemp Blue infrared thermometer and Thermapen Blue thermometer.

Housed in a robust PC/ABS case containing Biomaster product protection that reduces bacterial growth. Simply connect to your host device (iOS or Android), probe or scan the item to be measured and press the button to securely transmit your temperature data via a secure connection of up to 50 metres.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen IR Blue.



● Infrared thermometer

Simply aim the infrared thermometer at the target and press the scan button to display the surface temperature.

Please Note: the infrared non-contact function will only measure when the probe is in the closed position.

The Thermapen IR Blue thermometer incorporates a max/min temperature function accessed via the mode button (IR only). The distance to target ratio is 5:1, therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be adjusted via the host device.

● Penetration probe

Opening the probe puts the instrument into probe mode, enabling you to take the core temperature of liquid and semi-solid foods using the fast response, stainless steel penetration probe (Ø3.3 x 110 mm). It will display the temperature in just 3 seconds. The probe conveniently folds back through 180° into the side of the instrument when not in use.

Patented auto-rotating display



Order code	Description
228-965	Thermapen IR Blue
830-480	Protective silicone cover
832-002	Stainless steel wall bracket
830-485	Silicone cover - glow in dark



Specification	Thermapen IR Blue
Range - infrared	-49.9 to 349.9 °C
Range - probe	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy - infrared	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±0.4 °C (-49.9 to 199.9 °C)
Bluetooth module	BLE 5.0
Field of view	Target ratio 5:1
Emissivity	0.95 default - adjustable via remote device
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,000 hours - continuous use
Display	12 mm (horizontal) & 10 mm (vertical) LCD
Dimensions	19 x 50 x 157 mm
Weight	125 grams

FREE traceable certificate of calibration included (probe & IR)

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

TEMPTEST® BLUE THERMOMETER

- Waterproof IP67, compact design
- Automatic 360° rotational display
- SDK & technical integration support available
- Securely transmits data to your smart device

The TempTest Blue combines *Bluetooth®* wireless technology with high accuracy, precision and fast response. Simply pair it with your device (iOS or Android), probe the item to be measured and press the button to transmit your temperature data. The TempTest Blue thermometer features a secure Bluetooth range of up to 50 metres.

The thermometer is housed in a waterproof IP67 case with an ergonomic rubber seal and includes Biomaster product protection to reduce bacterial growth. The unit incorporates a stainless steel food penetration probe (Ø3.3 x 80 mm) with fast response tip. The true temperature of a product can be measured in just three seconds.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the TempTest Blue.



- **Protective silicone cover**
Protect your instrument against accidental damage by fitting a protective silicone cover.



Order code	Description
292-910	TempTest Blue
830-431	Protective silicone cover - white*
830-550	TempTest holster belt clip and wall bracket

*Various colours are available. See page 9 for details.



Holster belt clip and wall bracket



Specification	TempTest Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Bluetooth module	BLE
Battery	2 x 1.5 volt AAA
Battery life	1,000 hours - continuous use
Sensor type	K thermocouple
Display	11 mm LCD
Dimensions	17 x 47 x 200 mm (inc. probe)
Weight	105 grams
FREE traceable certificate of calibration included	

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA K & T BLUE THERMOMETERS

- Securely transmits data to your device
- Compact & robust design
- Interchangeable thermocouple probes
- SDK & technical integration support available

Introducing the new Therma K & T Blue thermometers, designed and manufactured in the UK. These thermometers feature many benefits found in the Therma 1 & Therma 1T models, but with the added convenience of *Bluetooth®* wireless technology.

Connecting to your host device (iOS or Android) is simple. Just probe the item you want to measure, press the button, and securely transmit your temperature data via a Bluetooth connection that works up to 50 metres away.

Both housed in a durable ABS case, designed with Biomaster product protection to reduce bacterial growth. The large, easy-to-read, LCD display shows low battery, and Bluetooth connection indicators. Powered by three AAA batteries, each unit offers a minimum of 3,000 hours of battery life. If not connected, the instruments will power off automatically after ten minutes to maximise battery life. This feature can be disabled if needed through the software.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma K & Therma T Blue.

NEW



Penetration probe - type K (123-160)

For alternative probes see pages 77 to 83



- **Protective silicone cover**
Protect your instrument from accidental damage. Various colours are available - see page 14.

- **Stainless steel wall bracket & white silicone cover (832-050)**
screws not supplied.



Example of ThermaData® Hub app



Fast response probe - type T (127-159)



Order code	Description
292-041	Therma K Blue
292-107	Therma T Blue
123-159	Fast response probe - type K
123-160	Penetration probe - type K
127-159	Fast response probe - type T
127-160	Penetration probe - type T
832-050	Therma series s/s wall bracket & cover
830-221	Protective silicone cover - white*
Therma K & T Blue are exclusive of probe(s)	
*Various colours are available. See page 14 for details.	

Specification	Therma K & T Blue
Range - Therma K	-199.9 to 1372 °C
Range - Therma T	-199.9 to 400 °C
Resolution - Therma K	0.1 °C to 999.9 °C thereafter 1°C
Resolution - Therma T	0.1 °C
Accuracy - Therma K	±0.4 °C ±0.1%
Accuracy - Therma T	±0.2°C ±0.1%
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3,000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams
FREE traceable certificate of calibration included	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA 20 & 22 BLUE THERMOMETERS



- Securely transmits data to your device
- Meets the European Standard EN 13485
- Optional test caps for accuracy checks
- SDK & technical integration support available

Designed and manufactured in the UK, the new Therma 20 & 22 Blue thermometers incorporate Bluetooth® BLE 5.0 technology, in addition to the standard benefits of the Therma 20 & Therma 22 thermometers. To use, simply connect the thermometer to your host device (iOS or Android), probe the item to be measured, and press the button to securely transmit your temperature data via a secure Bluetooth connection that can reach up to 50 metres.

Both units are housed in a robust ABS case that contains Biomaster product protection, which helps reduce bacterial growth. Both models also come with an easy-to-use Lumberg screw-locking connector that allows the use of a wide range of interchangeable thermistor probes and self-calibration test caps to perform accuracy checks.

The Therma 22 Blue is specifically designed for those who need the versatility of both thermocouple and thermistor probes in one compact unit. The thermistor sensor provides greater accuracy for food processing, while the type T thermocouple sensor extends the measurement range and provides faster response.

Both thermometers feature a large, easy-to-read, LCD display that shows low battery, and Bluetooth connection indication. They are powered by three AAA batteries that provide 3,000 hours of battery life. When not connected, the instruments will power off automatically after a few minutes, maximising battery life. This feature can be disabled via the software if it is not required.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma 20 Blue and Therma 22 Blue.

Example of ThermaData® Hub app



Thermistor penetration probe (174-166)
For alternative probes see page 86 and 87.



- **Thermistor test caps**
For checking the accuracy of your thermometer



Order code	Description
292-040	Therma 20 Blue
292-022	Therma 22 Blue
174-166	Thermistor penetration probe
177-166	Type T penetration probe
286-001	Thermistor test cap -18 °C
286-002	Thermistor test cap 0 °C
286-003	Thermistor test cap 3 °C
286-004	Thermistor test cap 70 °C
286-005	Thermistor test cap 100 °C
832-050	S/steel wall bracket & cover
830-221	Protective silicone cover - white*
Therma 20 & 22 Blue are exclusive of probe(s)	
*Various colours are available, See page 14 for details	

Specification	Therma 20 & 22 Blue
Range - Thermistor	-39.9 to 149.9 °C
Range - Type T t/c	-199.9 to 400 °C
Resolution - Thermistor	0.1 °C
Resolution - Type T t/c	0.1 °C to 300 °C thereafter 1 °C
Accuracy - Instrument only	±0.2 °C
System accuracy - Thermistor	±0.5 °C (-24.9 to 109.9 °C)
System accuracy - Type T t/c	±0.5 °C (-49.9 to 149.9 °C)
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3,000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams
FREE traceable certificate of calibration included	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

RAYTEMP® BLUE THERMOMETER



- Securely transmits data to your device
- Target distance/diameter ratio 5:1
- Time saving, paperless recordings
- FREE traceable certificate of calibration

Designed and manufactured in the UK, The RayTemp Blue infrared non-contact thermometer incorporates many of the features of the RayTemp 2, but with Bluetooth® BLE 5.0 technology.

Simply connect to your host device (iOS or Android), press and hold the measure button and aim the thermometer at the target to display the surface temperature and securely transmit the data via a secure connection of up to 50 metres.

The unit incorporates a 5:1 optic ratio (target distance/diameter ratio) and therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be changed from 0.1 to 1, if required. The unit does not incorporate laser alignment, which will encourage users to get closer to the object being measured thus reducing inaccurate readings.

The RayTemp Blue features a two button keypad, incorporating measure and on/off function, and an auto-power-off facility that automatically turns the instrument off after 10 minutes, maximising battery life. Each unit is housed in a robust ABS case that contains Biomaster product protection which reduces bacterial growth.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the RayTemp Blue.



OPTIONAL ACCESSORIES:

- Protective silicone cover.
Various colours are available - see page 14.
- Stainless steel wall bracket (832-050)
& white silicone cover (screws not supplied)



Order code	Description
228-920	RayTemp Blue
832-050	Therma series s/s wall bracket & cover
830-221	Protective silicone cover - white*
814-132	Comparator

*Various colours are available. See page 14 for details.



Specification	RayTemp Blue
Range	-49.9 to 349.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Field of view	Target ratio 5:1
Bluetooth module	BLE
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	3 x 1.5 volt AAA - 3,000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams

FREE traceable certificate of calibration included

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

DISHTEMP® BLUE DISHWASHER THERMOMETER

- Simulates maximum plate surface temperatures
- Waterproof to IP66
- HACCP compatible
- FREE traceable certificate of calibration



The DishTemp Blue Dishwasher Thermometer transmits temperature data to your iOS, Android or Bluetooth wireless device via a secure connection of up to 6 metres.

Specifically designed to save time, paper and eliminate human error when recording temperature cycles. The DishTemp Blue simulates a plate as it's cleaned and sanitised in a commercial dishwasher, accurately recording the maximum surface temperature at the touch of a single button, eliminating the need for costly and inaccurate test strips and stem thermometers that do not stay in place or record the surface temperature of a plate.

Built to survive daily use in professional kitchens, the DishTemp Blue dishwasher thermometer indicates temperature over the range of 0 to 90 °C with a resolution of 0.1 °C/°F and an accuracy of ±0.5 °C.

Incorporating a durable water-tight seal, the DishTemp Blue is supplied complete with a FREE 1-point traceable certificate of calibration

An SDK is available upon request.



Stainless steel wall bracket (832-280)

BLUETOOTH®



Order code	Description
810-289	DishTemp Blue thermometer
832-280	Stainless steel wall bracket

Specification	DishTemp Blue
Range	0 to 90 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C
Bluetooth module	BLE
Battery	3 volt CR2032 lithium coin cell
Battery life	40 hours
Display	Custom LCD
Dimensions	14 x Ø127 mm
Weight	120 grams
FREE traceable certificate of calibration included	

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.

THERMADATA® HUB SOFTWARE

- Simple and user friendly
- Complete HACCP solution
- Automatic .pdf reports
- No subscription fees



ThermaData Hub is our latest software solution, designed to simplify and enhance food safety HACCP procedures.

Drawing on years of experience providing wireless, user-friendly solutions for food professionals, this complete platform visualises all your temperature data in one place.

With powerful analytics tools, customisable reports, and visualisations, you can gain actionable insights, track trends, and make data-driven decisions to improve your food safety processes.

By connecting our range of *Bluetooth®* thermometers to the ThermaData Hub mobile app, you can capture HACCP results on the go. This portable solution allows for real-time temperature readings, ensuring accurate data collection.

Our software takes monitoring to the next level by also managing all WiFi loggers connected, allowing setup and automatic data saving 24/7 from any stationary location such as fridges and freezers. You can maintain a continuous record of temperature changes, helping you identify anomalies and prevent any food safety problems.

By digitising your HACCP procedures, our software eliminates the need for manual record-keeping, reducing paperwork and human errors. With automated alerts and notifications, you can proactively respond to temperature fluctuations, minimising risks and optimising efficiency.

Compatible with Windows 10 and above.



ThermaData Hub is a software solution designed to improve all food HACCP procedures.



THERMADATA® HUB SOFTWARE

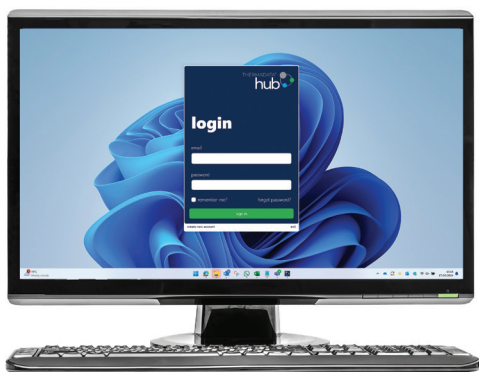
TD Hub simplifies the process of generating reports required for audits, inspections, and regulatory authorities. With ThermaData Hub, you can stay ahead of the curve and maintain food safety standards effortlessly.

THERMADATA® HUB - How does it work?

Installation and set up

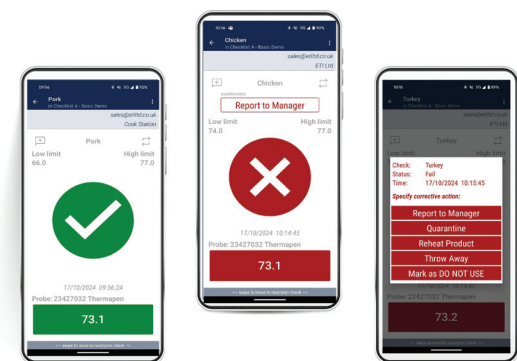
You can download the ThermaData Hub PC Software for free from our website at etilt.com/software.

Simply sign in or create a new account and set up users by inviting team members to join. When setting up for the first time, you can also choose to automatically move all ThermaData WiFi instruments that you have paired with ThermaData Studio over into ThermaData Hub, or add each logger manually.



Configure checklists and monitoring settings

ThermaData WiFi can be customised according to your preferences, including high low limits, log and transmission rates. You can also create or import customised checklists that may include temperature checks, corrective actions, batch numbers, pass/fail checks, dropdown options, use-by dates, yes/no questions and more. Once you're done, you can easily publish checklists to a list of selected users.



Collect results via mobile device

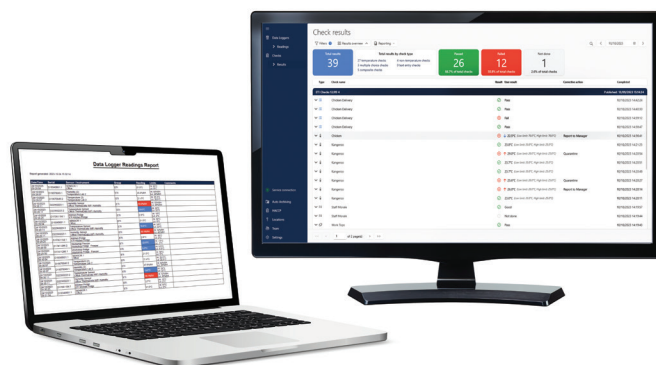
Using the ThermaData Hub mobile app, available on Android, log in and easily see checklists that have been assigned to you or your location. Perform the checks using a connected ETI Bluetooth® thermometer.

Custom corrective actions allow the user to know exactly what to do when any anomalies are found during the checks. Annotations can also be applied to any checks at any time. Results can be uploaded to the PC at the push of a button.

Users will also retrieve push notifications for any WiFi logger that goes out of limits, via the ThermaData Hub app.

Analyse data and results

PC automatically captures all monitoring results, which can be further analysed by applying custom filters to display the desired data. Any anomalies can be visually represented through viewable graphs, with annotations and comments added as necessary. Additionally, the mobile app's HACCP checks can also be reviewed on the PC by applying the same filters. Results are easily exportable to Excel or .csv formats, and can also be converted to PDF reports with ease.



INDUSTRIAL THERMOMETERS

Industrial thermometers are designed for a wide range of applications that may require more robust or specific styles of thermometer to ensure consistently accurate readings. Common applications include:

- HVAC
- Water temperature measuring
- Manufacturing
- Facilities management

CHOOSING AN INDUSTRIAL THERMOMETER

When selecting a thermometer for your industrial application, some common features to consider are:

- **Waterproofness:** protection from water and dust
- **Range:** the highest and lowest temperatures required
- **Accuracy:** the potential margin for error
- **Hold:** locking readings on-screen for easy recording
- **Max/min:** the maximum and minimum temperatures over a period

THERMOMETER KITS

Some types of common temperature checks usually require certain probes or accessories to go alongside their thermometer. For example, HVAC engineers often use two clamp probes for radiator balancing. In addition, legionella risk assessments can benefit from a timer to ensure the water runs for the correct length of time.

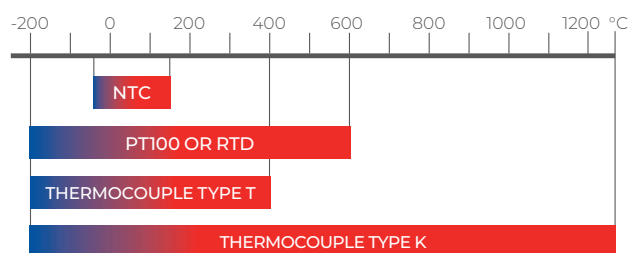
Our thermometer kits are specifically tailored to these requirements, including all of the essential equipment typically needed for these checks. They're also packed in a handy carrying case, which makes transporting the equipment to different locations easy.

SENSOR TYPES

Our digital thermometers and probes use three sensor types: thermocouple, thermistor and RTD (PT100).

Thermocouple thermometers have a fast response and wide temperature range, suitable for most general applications. They have different types of connectors: types K and T are the most common.

Thermistor and PT100 thermometers are more accurate but slower to respond, so are best for when accuracy is a priority. Thermistor probes also tend to have a narrower temperature range.



THERMA 1, 3 & ELITE THERMOMETERS

- Elite model includes backlight & max/min functions
- FREE traceable certificate of calibration
- Interchangeable thermocouple probes
- Compact & robust design

The Therma 1 and 3 digital thermometers are rugged and easy-to-use instruments that operate through the range of -100 to 1372 °C with a 0.1 °C or 1 °C resolution. The thermometers are housed in a robust ABS case that contains Biomaster product protection to reduce bacterial growth.

The Therma 1 and 3 feature large, easy-to-read, LCD displays with open circuit 'Err', hold and low battery indication. Each thermometer is powered by three AAA batteries that give a minimum of 10,000 hours of battery life. The units will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if not required.

We offer an extensive range of interchangeable type K thermocouple probes for a variety of different applications, see pages 77 to 83 for full details.

- **Therma Elite thermometer**

The Therma Elite incorporates all the features of a Therma 1 thermometer, but with the addition of a backlit display, max/min memory function and a mode button for the selection of 0.1/1 °C/°F. The thermometer also incorporates a calibration trim function (±2 °C) which allows the user to compensate for thermocouple probe errors.



Order code	Description
221-041	Therma 1*
221-043	Therma 3
221-061	Therma Elite
123-160	Penetration probe
830-227	Protective silicone cover - black
832-053	S/steel wall bracket & cover
The Therma series is exclusive of probe	
*Therma 1 Type T version available. See page 15	



Bluetooth®
model available
see page 58

OPTIONAL ACCESSORIES:

- Protective silicone cover - the Therma series is splashproof to IP64 when used in conjunction with this cover. Various colours are available - see page 14 for details
- Stainless steel wall bracket (screws not supplied) & protective black silicone cover (832-053)

Penetration probe
(123-160)



Specification	Therma 1/Elite	Therma 3
Range 0.1 °C	-99.9 to 299.9 °C	N/A
Range 1 °C	300 to 1372 °C	-100 to 1372 °C
Resolution	0.1 °C & 1 °C	1 °C
Accuracy	±0.4 °C ±0.1 %	±1 °C
Battery & life	3 x 1.5 volt AAA - 10,000 hours	
Sensor type	K thermocouple	
Display	12 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	130 grams	
FREE traceable certificate of calibration included		

THERMA WATERPROOF THERMOMETERS

- Interchangeable thermocouple probes
- Waterproof IP66/67, robust design
- Integrated rubber seal for durability
- Large, easy-to-read backlit LCD

The Therma Waterproof thermometer is housed in a robust waterproof ABS case which offers IP66/67 protection and helps reduce the possibility of damage in harsh environments. The thermometer utilises state of the art electronic circuitry, designed for reliability and ease of use and can be submerged or washed under a running tap - ideal for industrial applications.

The Type K thermometer measures temperature over the range of -99.9 to 299.9 °C with a 0.1 °C resolution, auto-ranging to 1 °C resolution over the range of 300 to 1372 °C, whilst the Type T measures temperature over the range of -100 to 400 °C with a 0.1 °C resolution, auto-ranging to 1 °C resolution over the range of 300 to 400 °C

The Therma Waterproof thermometers features a large easy-to-read, LCD display with max/min, hold, open circuit, low battery indication and a user selectable backlight. The unit also incorporates an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life.

We offer an extensive range of interchangeable type K and type T thermocouple probes, for a variety of different applications, see pages 77 to 83 for full details.



Waterproof penetration probe (143-162)

OPTIONAL ACCESSORIES:

- Protective silicone cover. Various colours are available. See page 20 for details
- Probe Wipes - helps reduce bacterial growth. See page 40.



Waterproof penetration probe Type T (147-162)

Order code	Description
232-101	Therma Waterproof - Type K
232-107	Therma Waterproof - Type T
143-162	Penetration probe - Type K
147-162	Penetration probe - Type T
830-257	Protective silicone cover - black
The Therma Waterproof is exclusive of probe	



Specification	Therma Waterproof
Range 0.1 °C - Type K & T	-99.9 to 299.9 °C
Range 1 °C - Type K	300 to 1372 °C
Range 1 °C - Type T	300 to 399.9 °C
Resolution	0.1 °C to 299.9 °C thereafter 1 °C
Accuracy - Type K	±0.4 °C ±0.1 % of reading
Accuracy - Type T	±0.2 °C ±0.1 % of reading
Battery	3 x 1.5 volt AAA
Battery life	10,000 hours
Sensor type - Type K	K thermocouple
Sensor type - Type T	T thermocouple
Display	15 mm LCD
Dimensions	32 x 71 x 141 mm
Weight	220 grams
FREE traceable certificate of calibration included	

LEGIONNAIRES' THERMOMETER KITS

- For routine water temperature monitoring
- Excellent value-for-money

Incorrect water temperature is a key risk factor for legionella growth. The legionella bacteria multiply in water at temperatures between 20 to 45 °C. A typical method of control is to store hot water above 60 °C and distribute it at above 50 °C (care must be taken to prevent scalding). Cold water should be kept below 20 °C. These kits represent excellent value-for-money and are supplied in a robust ABS carrying case/zip pouch. For a full specification on the Therma 1, see page 65



LEGIONNAIRES' STANDARD THERMOMETER KIT

Each kit contains:

- Therma 1 thermometer (221-041)
- Waterproof surface immersion probe (323-046)
- Heavy-duty PTFE wire probe (133-372)
- Zip pouch (830-037)



Order code	Description
860-885	Legionnaires' Standard kit
FREE traceable certificate of calibration included	



LEGIONNAIRES' PREMIUM THERMOMETER KIT

Each kit contains:

- Therma 1 thermometer (221-041)
- Penetration probe (123-160)
- Precision ribbon surface probe (123-030)
- PTFE wire probe (133-362)
- Water-resistant countdown timer (806-150)
- Box of 100 Probe Wipes (836-220)
- ABS carrying case (834-150)



Order code	Description
860-860	Legionnaires' Premium kit
FREE traceable certificate of calibration included	

LEGAL RESPONSIBILITIES FOR TESTING FOR LEGIONELLA

As an employer or the person in control of premises, it's your legal responsibility to conduct a risk assessment for exposure to legionella. The revised Approved Code of Practice (ACOP) Legionnaires' disease: Control of Legionella Bacteria in water systems (L8), issued by the Government's Health and Safety Executive (HSE), extends the guidance on controlling legionella bacteria in water systems. The code applies to all hot and cold water systems in the workplace, regardless of their capacity. While domestic systems may pose a risk, the code only applies to risks arising from work activities. However, it does include domestic landlords who have a responsibility to keep their tenants safe from health hazards. This means that all employers and landlords who manage premises with hot/cold water systems and/or wet cooling systems must identify any risk of contamination and take steps to prevent or control it.

THERMA DIFFERENTIAL THERMOMETER

- Robust, waterproof case offering IP66/67 protection
- Ideal for radiator balancing or HVAC applications
- Designed for plumbers, reliable & easy-to-use
- Backlit LCD with max/min & hold functions

The Therma Differential is a digital thermometer that allows the user to operate two type K thermocouple probes simultaneously. The display can be switched to show probe T1 or T2 temperature or the difference between probes T1 and T2 (T1-T2). This allows, for example, the temperature drop across radiators or the temperature rise or fall of two items being measured.

The Therma Differential measures temperature over the range of -99.9 to 299.9 °C with a 0.1 °C resolution or 300 to 1372 °C with a 1 °C resolution. The unit features a custom, LCD display with °C/°F, T1, T2, diff, hold, open circuit, low battery indication and a user selectable backlight, plus an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life.

Housed in a durable, ABS case that has an integrated rubber seal to ensure complete water tightness and help reduce the possibility of damage in harsh environments.

We offer an extensive range of interchangeable type K thermocouple probes, for a variety of different applications, see pages 77 to 83 for full details.



HVAC STANDARD THERMOMETER KIT

Each kit contains:

- Therma Differential thermometer (231-022)
- 2 x pipe clamp probes (133-040)
- Zip pouch (830-090)



HVAC thermometer kits are ideal for a wide range of plumbing and heating applications. The kits can be used to monitor both cold and hot water temperatures as well as undertake other routine HVAC checks.

Order code	Description
231-022	Therma Differential
860-090	HVAC Premium thermometer kit
860-095	HVAC Standard thermometer kit
830-258	Protective silicone cover - black
133-040	Pipe clamp probe
832-015	Stainless steel wall bracket
The Therma Differential is exclusive of probe	

HVAC PREMIUM THERMOMETER KIT

Each kit contains:

- Therma Differential thermometer (231-022)
- Precision ribbon surface probe (123-030)
- Penetration probe (123-160)
- 2 x pipe clamp probes (133-040)
- ABS carrying case (834-300)



Specification	Therma Differential
Range 0.1 °C	-99.9 to 299.9 °C
Range 1 °C	300 to 1372 °C
Resolution	0.1 °C to 299.9 °C thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Battery	3 x 1.5 volt AAA
Battery life	7,500 hours
Sensor type	K thermocouple
Display	15 mm LCD
Dimensions	32 x 71 x 141 mm
Weight	220 grams
FREE traceable certificate of calibration included	

MICROTHERMA 1 THERMOMETER

- $\pm 0.2^{\circ}\text{C}$ high accuracy, 0.1°C resolution over the full range
- Multi-input type K, J, T, R, N, S & E thermocouple probes
- In-built microprocessor for automatic recalibration
- FREE traceable certificate of calibration

The MicroTherma 1 microprocessor thermometer measures temperature over the range of -270 to 1768°C with a $0.1^{\circ}\text{C}/^{\circ}\text{F}$ resolution. Each MicroTherma 1 incorporates an easy-to-read, LCD display with open circuit, low battery, hold, max/min and $^{\circ}\text{C}/^{\circ}\text{F}$ indication.

The thermometer should never need re-calibrating as the microprocessor enables the instrument to continuously and automatically carry out self-diagnostic recalibration. An additional feature allows the user to adjust the reading ($\pm 2.5^{\circ}\text{C}$) to offset any probe errors, correcting any inaccuracies of the thermocouple probe.

Each thermometer thereafter will automatically store, display the offset and adjust the instrument for the known probe error, maximising system accuracy.

The MicroTherma 1 has the versatility of accepting any type K, J, T, R, N, S & E thermocouple probe, the probe type is simply selected through the mode button. The unit incorporates both max and min readings with a reset function and also features an auto-power-off facility that maximises the battery life, turning the instrument off automatically after 30 minutes, this function can be disabled by the user, if not required. Other selectable parameters include: display contrast and internal CJC temperature reading. For details of the wide range of type K or type T thermocouple probes available, see pages 77 to 83.



High temperature probe (123-212)



Air probe (127-300)

- Acrylic wall bracket (screws not supplied). Ideal for storing your thermometer safely when not in use (832-115)

- Protective silicone cover - black. Protect your instrument against accidental damage by fitting a cover (830-205)



Order code	Description
221-091	MicroTherma 1
123-212	High temperature probe
127-300	Air probe
830-205	Protective silicone cover - black
832-115	Acrylic wall bracket
The MicroTherma 1 is exclusive of probe	

Specification	MicroTherma 1
Range	0.1°C -270 to 1768°C
Resolution	$0.1^{\circ}\text{C}/^{\circ}\text{F}$
Accuracy	$\pm 0.2^{\circ}\text{C}$ ± 1 digit
Battery	2 x 1.5 volt AAA
Battery life	1,000 hours
Sensor type	K, J, T, R, N, S & E thermocouple - selectable
Display	Custom LCD
Dimensions	35 x 73 x 141 mm
Weight	175 grams
FREE traceable certificate of calibration included	

PRECISION PT100 THERMOMETERS

- High accuracy $\pm 0.2\text{ }^{\circ}\text{C}$ or $0.05\text{ }^{\circ}\text{C}$
- Interchangeable PT100 probes
- $0.1\text{ }^{\circ}\text{C}$ or $0.01\text{ }^{\circ}\text{C}$ resolution
- Meets the European Standard EN 13485

High accuracy is one of the notable features of the Precision thermometers. There are two models available, the Precision and Precision Plus. The Precision measures temperature over the range of -199.9 to $850\text{ }^{\circ}\text{C}$ with a $0.1\text{ }^{\circ}\text{C}$ resolution and high accuracy of $\pm 0.2\text{ }^{\circ}\text{C}$. The Precision Plus measures temperature over the range of -199.99 to $299.99\text{ }^{\circ}\text{C}$ with a $0.01\text{ }^{\circ}\text{C}$ resolution and high accuracy of $\pm 0.05\text{ }^{\circ}\text{C}$. **Please note:** the range and accuracies quoted are for the instruments only.

Conveniently located on the front of the instrument are the on/off, max/min and display hold buttons. The Binder probe socket is positioned at the top of the instrument which enables a variety of probes to be used depending on the application.

The Precision thermometers feature a large, easy-to-read, LCD display with open circuit 'Err' and low battery indication. Each thermometer is powered by three AAA batteries that give a minimum of 2,000 hours of battery life. The unit will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.

We offer a range of interchangeable PT100 Class A probes for use with the Precision thermometer, see page 85 for full details. The Precision Plus is supplied with a PT100 1/10th DIN liquid probe (160-222) and a UKAS Certificate of Calibration. For regularly checking the accuracy of each Precision thermometer, a range of calibration PT100 test caps complete with a UKAS Certificate of Calibration are available, see page 105 for details.



PT100 1/10th DIN liquid probe (160-222)

INDUSTRIAL



OPTIONAL ACCESSORY:

- Protective silicone cover - the Precision/Precision Plus thermometers are splashproof to IP64 when used in conjunction with this cover. Various colours are available - see page 14.



Order code	Description
222-053	Precision thermometer
222-051	Precision Plus thermometer
160-222	PT100 1/10 th DIN liquid probe
830-221	Protective silicone cover - white
832-050	S/steel wall bracket & cover
The Precision is exclusive of probe	
The Precision Plus is inclusive of probe	

Specification	Precision	Precision Plus
Range	-199.9 to 850 °C	-199.99 to 299.99 °C
Resolution	0.1 °C	0.01 °C
Accuracy	±0.2 °C	±0.05 °C
Battery & life	3 x 1.5 volt AAA - 2,000 hours	
Sensor type	PT100	
Display	10 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	130 grams	
The Precision includes a traceable certificate of calibration		
The Precision Plus includes a UKAS Certificate of Calibration		

THERMAPEN® CLASSIC THERMOMETERS

- Choice of air, surface or penetration probe
- Lightweight, compact & easy-to-use
- High accuracy $\pm 0.4^\circ\text{C}$
- One-handed operation

The Thermapen classic thermometer incorporates a large digital display with a precise read-out over the range of -49.9 to 299.9°C with a 0.1°C resolution. The resolution can be switched to 1°C , if required, via a switch in the battery compartment.

The thermometer will power off automatically after ten minutes, maximising battery life. This feature can be disabled if not required. Both low battery (icon) and open circuit indication are also displayed, when applicable. Each Thermapen classic is powered by two lithium coin cell batteries with a minimum life expectancy of 1,500 hours.

The probe conveniently folds back through 180° into the side of the instrument when not in use. The casing is washable and includes Biomaster product protection that reduces bacteria growth and the ergonomic rubber seal minimises the risk of the ingress of water, dust or food.

● Choice of probe styles

The Thermapen classic thermometer is available with three styles of probe; surface, air or penetration. The fast response air probe is an invaluable tool in establishing the correct air temperature quickly in HVAC and laboratory applications. The surface probe is particularly useful in determining the temperature of hot plates or pipes etc. **Please note:** the accuracy and speed of response will be dependant on whether the surface is flat and heat transfer compound is used.

OPTIONAL ACCESSORIES:

- Protective PVC wallet with belt strap (830-110)
- Protective silicone cover (830-260)
- Glow-in-the-dark silicone cover with magnets (830-265)
- Stainless steel wall bracket (832-002) screws not supplied



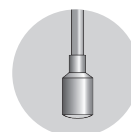
Order code	Description
231-210	Thermapen Classic - penetration probe
231-212	Thermapen Classic - surface probe
231-214	Thermapen Classic - air probe
830-260	Protective silicone cover
830-265	Silicone cover - glow in dark
830-110	Protective wallet
832-002	Stainless steel wall bracket
The Thermapen is supplied in a zip pouch (830-001)	



WATERPROOF SURFACE PROBE

Ø8 x 95 mm

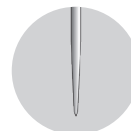
This waterproof ribbon surface probe is ideal for measuring the surface temperature of pipes, bearings, hotplates and other flat surfaces.



PENETRATION PROBE

Ø3.3 x 108 mm

This strong and versatile probe incorporates a pointed, general purpose tip, ideal for insertion into liquids and semi-solids.



AIR OR GAS PROBE

Ø3.3 x 95 mm

This fast response air or gas probe is ideal for measuring the air temperature in HVAC applications, laboratories and other temperature sensitive working areas.



Specification	Classic Thermapen
Range	-49.9 to 299.9°C
Resolution	0.1°C or 1°C - user selectable
Accuracy	$\pm 0.4^\circ\text{C}$ (-49.9 to 149.9°C) or $\pm 1\%$
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,500 hours
Sensor type	K thermocouple
Display	14.5 mm LCD
Dimensions	19 x 47 x 153 mm
Weight	97 grams
FREE traceable certificate of calibration included	

THERMAGUARD® PHARM THERMOMETER

- External sensor(s) designed to simulate fridge contents temperature
- Two models available - single or dual external sensors
- Optional UKAS Calibration Certificate available
- Programmable high/low audible alarm

The ThermaGuard Pharm has been specifically designed for use in monitoring the storage and transportation temperatures of perishable items such as food, vaccines and medication. Each thermometer features a large LCD display, which simultaneously displays the current and max/min recorded temperatures.

Both units feature programmable audible alarms allowing the user to preset high and low temperature limits. When the alarm is active the LCD will flash. The alarm can be silenced by pressing any button.

Both ThermaGuard Pharm models feature a CalCheck 0.0 °C (± 0.1 °C) function that allows the user to verify the accuracy of the thermometer at any time, giving confidence that measurements are accurate.

Each thermistor probe is encased in a sealed bottle. To begin monitoring, simply unscrew and top up with Glycol solution (50 ml bottle supplied).

● Two models available with optional UKAS Certificate of Calibration

The ThermaGuard Pharm 101 incorporates two temperature sensors; a remote water-resistant thermistor probe with a one metre PVC lead for monitoring the product temperature and an internal sensor to monitor room temperature. The ThermaGuard 102 incorporates two remote water-resistant thermistor probes, both with one metre PVC leads for monitoring dual applications. An optional two-point UKAS Certificate of Calibration is available. Each certificate indicates deviations from standards at -18 and 0 °C.

● FREE wall bracket included

Each ThermaGuard is supplied with an ABS plastic wall bracket that incorporates a built-in foot stand, a hook for hanging and a screw thread for tripod mounting.



0601



OPTIONAL ACCESSORIES:

- Protective silicone cover (830-880)
- Replacement Glycol solution 50 ml (816-035)
- Magnetic mount (830-800)



Order code	Description
226-911	ThermaGuard Pharm 101
891-911	ThermaGuard Pharm 101 & UKAS Cert
226-912	ThermaGuard Pharm 102
891-912	ThermaGuard Pharm 102 & UKAS Cert
830-880	Protective silicone cover - black
832-590	Replacement ABS wall bracket
830-800	Magnetic mount
816-035	Replacement Glycol solution - 50 ml
UKAS certificate applies to remote probe(s) only	

Specification	ThermaGuard Pharm
Range - internal	-19.9 to 49.9 °C (101 model only)
Range - external	-39.9 to 49.9 °C
Resolution	0.1 °C/°F
Accuracy	± 0.4 °C
Battery	2 x 1.5 volt AA
Battery life	25,000 hours (without alarm)
Sensor type	Thermistor
Display	Custom LCD
Dimensions	29 x 73 x 96 mm
Weight	165 grams
Optional UKAS certificate of calibration available	

Digital max/min thermometer



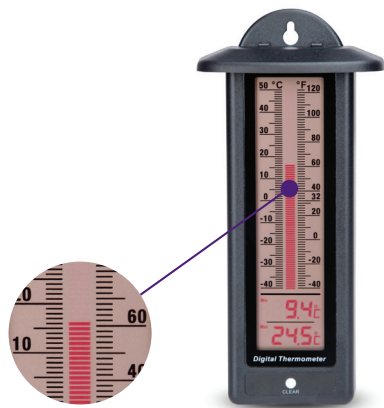
These digital max/min thermometers simultaneously display the actual temperature whilst displaying the max and min temperatures.

Each thermometer measures temperature over the range of -20 to 69.9 °C with a 0.1 °C/°F resolution.

The unit is housed in an ABS case measuring 29 x 79 x 187 mm. The instrument incorporates a slot for hanging and is powered by one AA battery (supplied).

Order code	Description
810-120	Digital max/min - white
810-121	Digital max/min - green

LCD bar graph max/min thermometer



This digital max/min thermometer simultaneously displays the actual temperature whilst displaying the max and min temperatures on a digital LCD bar graph.

Measuring temperature over the range of -19.9 to 49.9 °C with a resolution of 0.1 °C/°F and an accuracy of ± 1 °C. To reset the recorded max and min temperatures, simply press the white button on the front of the thermometer.

The unit is housed in a black ABS case measuring 20 x 66 x 212 mm, which incorporates a slot for hanging and is powered by a single AAA battery (supplied).

Order code	Description
810-105	Digital max/min - black

Digital max/min thermometer



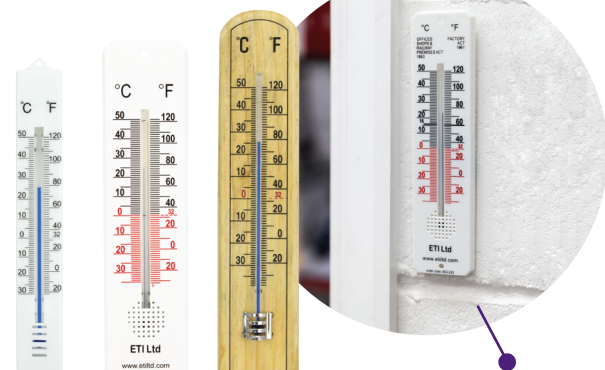
Remote probe

This max/min and alarm thermometer indicates temperature over the range of -24.9 to 69.9 °C with a resolution of 0.1 °C/°F and an accuracy of ± 1 °C.

The thermometer features a large, easy to read LCD display, max/min memory function to record the highest and lowest temperatures and a high/low programmable audible alarm, ideal for frost alert. The unit incorporates two temperature sensors, a remote water resistant probe with one metre PVC lead for the appliance temperature and an internal sensor for the room temperature. Dimensions are 16 x 50 x 82 mm.

Order code	Description
810-125	Digital max/min thermometer

Room thermometers



803-229 803-232 803-292 803-233 shown wall mounted

These spirit-filled, wall-mounted room thermometers display temperature over the range of -30 to 50 °C with an accuracy of ± 1 °C and a clearly marked scale in both °C and °F.

Models 803-229, 803-232 and 803-233 are housed in a white, ABS plastic case whereas model 803-292 is housed in a smooth grained, traditional style, beechwood case. Model 803-233 indicates the Factory Act minimum working temperature of 16 °C.

Order code	Description
803-229	White 25 x 175 mm
803-232	White 45 x 195 mm
803-233	White 45 x 195 mm - Factory Act
803-292	Wooden 45 x 205 mm

WALL-MOUNTED THERMOMETERS & HYGROMETERS

- Ideal for offices, warehouses, leisure centres & schools
- Indoor wall mounting
- Large, easy-to-read LED display
- Range -40 to 80 °C & 0 to 99 %rh

NEW for 2025, these large, easy-to-read LED wall-mounted thermometers simultaneously display temperature and humidity over the range of -40 to 80 °C and 0 to 99 %rh with a resolution of 0.1 °C or 0.1 %rh. They are ideal for continuously monitoring air temperature and humidity in numerous commercial environments.

The units come in three different sizes, all of which are designed to be wall-mounted indoors using the rear keyhole slot fixing.

Please note: these units are not suitable for outdoor locations.

The instruments feature large, bright red LED characters with a height of 45 mm (WM20), 75 mm (WM40), or 100 mm (WM60), which can be read clearly from a distance of over 20 metres.

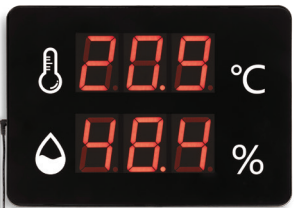
These wall-mounted thermometers and hygrometers are mains powered via a 5V USB mains adaptor (supplied) and come complete with a FREE temperature traceable certificate of calibration included.



825-886 shown wall mounted



WM20 25 x 175 x 210 mm



WM40 30 x 280 x 390 mm



WM60 32 x 400 x 600 mm

NEW

Large, bright LED characters which can be read clearly from a distance of over 20 metres.



825-882 shown wall mounted

Specification	WM20	WM40	WM60
Range - temperature	-40 to 80 °C		
Range - humidity	0 to 99 %rh		
Resolution - temperature	0.1 °C		
Resolution - humidity	0.1 %rh		
Accuracy - temperature	±0.5 °C (-10 to 50 °C)		
Accuracy - humidity	3 %rh (30 to 80 %rh)		
Power	5v 1A USB mains adaptor		
Display	Custom LED 45 mm, 75 mm & 100 mm high characters		
Dimensions	25 x 170 x 210 mm	30 x 280 x 390 mm	32 x 400 x 600 mm
Weight	500 grams	850 grams	2,340 grams
FREE temperature traceable certificate of calibration included			

Order code	Description
825-882	WM20 wall-mounted thermometer & hygrometer
825-884	WM40 wall-mounted thermometer & hygrometer
825-886	WM60 wall-mounted thermometer & hygrometer

BI-METAL DIAL THERMOMETERS

Ø25 mm bi-metal dials



These pocket-sized Ø25 mm dial thermometers feature a magnified lens and a pointed Ø4 x 130 mm stainless steel stem. Each dial is manufactured in three scales and is supplied with a FREE calibration spanner and probe cover complete with pocket clip.

The thermometer incorporates a calibration adjustment nut, at the rear of the dial to allow easy recalibration.

Order code	Description	Range
800-811	Ø25 mm dial	-40 to 70 °C
800-812	Ø25 mm dial	-10 to 110 °C
800-813	Ø25 mm dial	0 to 250 °C
830-220	Ø4 mm probe holder clip	

Ø45 mm bi-metal dials

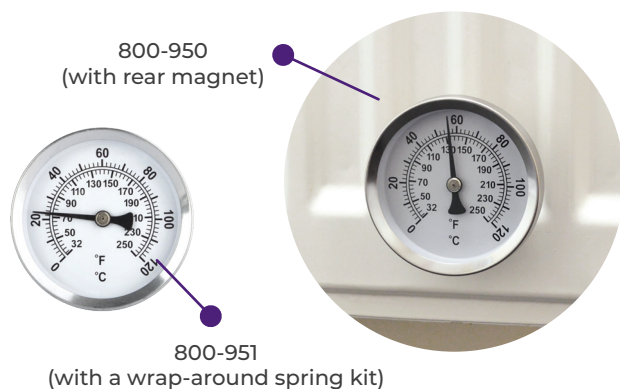


These pocket-sized Ø45 mm dial thermometers feature a pointed Ø4 x 130 mm stainless steel stem. Each dial is manufactured in three scales and is supplied with a FREE calibration spanner and probe cover complete with pocket clip.

The thermometer incorporates a calibration adjustment nut, at the rear of the dial to allow easy recalibration.

Order code	Description	Range
800-801	Ø45 mm dial	-40 to 70 °C
800-802	Ø45 mm dial	-10 to 110 °C
800-803	Ø45 mm dial	0 to 250 °C
830-220	Ø4 mm probe holder clip	

Ø60 mm bi-metal dial thermometers



These easy-to-use surface dial thermometers indicate temperature over the range of 0 to 120 °C or 32 to 250 °F. The Ø60 mm dial face has a clear, graduated scale indicating temperature in 2 °C and 4 °F divisions.

810-951 is supplied with a wrap-around stainless steel spring kit for pipe mounting (two springs - one for up to 15 mm pipes, the other for up to 53 mm pipes).

810-950 incorporates a magnetic sensing pad for mounting on ferrous metals. Ideal for monitoring the temperature of radiators and pipes.

Order code	Description
800-951	Pipe thermometer
800-950	Magnetic thermometer

Heavy-duty bi-metal dial thermometers



These simple-to-use, heavy-duty, Ø50 mm bi-metal dial probe thermometers are reliable and accurate. The dial thermometers feature a Ø6.35 x 300 mm pointed stainless steel stem. Ideal for asphalt, blacktop, soil and other heavy-duty applications.

Each thermometer incorporates a clear acrylic face and a calibration adjustment nut at the rear of the dial. Three temperature scales are available - see below.

Order code	Description	Range
800-060	Ø50 mm dial	-20 to 60 °C
800-120	Ø50 mm dial	0 to 120 °C
800-250	Ø50 mm dial	0 to 250 °C

THERMOCOUPLE, PT100 & THERMISTOR PROBES

Choosing the best probe for your application will make your checks easier and your readings more accurate. Our extensive range of probes is specifically tailored to a variety of needs so you can find the best option for you.

PROBE FEATURES

Some things to consider when selecting a probe are:

RESPONSE TIME

Response time is the time taken for the sensor to reach 2/3^{ds} of the final reading and is the standard means of measuring probe response time. However, it is variable depending on the substance being measured. Therefore, estimating an accurate response time without knowing the application can be difficult. The times quoted in our product descriptions should be used as a general guide.

RANGE AND ACCURACY

Some probes have a wide range, while others have a narrow range. Probes with a narrow range tend to be more accurate within that range. To get the best results, identify the highest and lowest temperatures you'll need to measure using your probe and how accurate you need the measurements to be.

CABLE TEMPERATURE RANGE

PVC 0 to 105 °C

FEP -100 to 150 °C

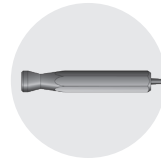
PTFE -50 to 250 °C

Fibreglass -60 to 350 °C

High Temp Fibreglass -60 to 600 °C

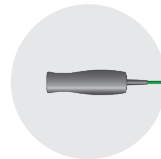
HANDLE TYPES

Our probes feature four types of handles: hexagonal, small rounded, ribbed heavy-duty or T-shaped. Each handle features Biomaster product protection to reduce bacterial growth.



HEXAGONAL

Manufactured from nylon and available in black. Maximum temperature is 105 °C.



SMALL ROUNDED

Manufactured from nylon and available in black. Maximum temperature is 105 °C.



T-SHAPED

Manufactured from polypropylene and available in black or white. Maximum temperature is 105 °C.



RIBBED HEAVY-DUTY

Manufactured from polypropylene and available in black or white. Maximum temperature is 85 °C. Available with colour-coded caps.

PROBE ACCURACY SPECIFICATIONS

K Thermocouple Probes/Sensors

All type K thermocouple probes/sensors are manufactured from Class 1 type K thermocouple wire as detailed in the British Standard BS EN 60584-1:2013, and meet the following accuracy specification:

- ± 1.5 °C between -40 & 375 °C
- ± 0.4 % between 375 & 1000 °C

T Thermocouple Probes/Sensors

All type T thermocouple probes/sensors are manufactured from Class 1 type T thermocouple wire as detailed in the British Standard BS EN 60584-1:2013, and meet the following accuracy specification:

- ± 0.5 °C between -40 & 125 °C
- ± 0.4 % between 125 & 400 °C

NTC Thermistor Probes/Sensors

The tolerance specification for all ETI manufactured thermistor probes is as follows:

- ± 0.4 °C between -20 & 100 °C
- ± 0.2 °C between 0 & 70 °C
- ± 0.3 °C between -10 & 0 °C

High Accuracy K Thermocouple Probes/Sensors (indicated in the catalogue with the icon)

ETI high accuracy type K probes are manufactured from Class 1 type K thermocouple wire which is chosen for improved accuracy and performance and meet the following accuracy specification:

- ± 0.5 °C between 0 & 100 °C

High Accuracy T Thermocouple Probes/Sensors (indicated in the catalogue with the icon)

ETI high accuracy type T probes are manufactured from Class 1 type T thermocouple wire which is chosen for improved accuracy and performance and meet the following accuracy specification:

- ± 0.2 °C between -20 & 70 °C
















PT100/RTD Probes/Sensors

All PT100/RTD probes/sensors are manufactured from Class A or 1/10DIN PT100/RTD 100 Ω (ohms) detectors as detailed in the IEC 60751 (2008) standard, and meet the following accuracy specification:

- CLASS A ± 0.15 °C ± 0.2 % between -200 & 600 °C
- 1/10DIN ± 0.03 °C ± 0.1 % between -100 to 200 °C
Otherwise ± 0.2 %



Please note: Standard lead length is one metre unless separately specified

HANDHELD TYPE K OR T THERMOCOUPLE PROBES

			Order code
<p>PENETRATION PROBE</p>  <p> Ø3.3 x 130 mm</p>	<p>This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to 250 °C	123-160 323-160 (coiled lead)	
<p>PENETRATION PROBE</p>  <p> Ø3.3 x 300 mm</p>	<p>This extended, stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to 250 °C	123-168 323-168 (coiled lead)	
<p>FAST RESPONSE PROBE</p>  <p> Ø3.3 x 100 mm</p>	<p>This reduced tip (Ø1.8 x 25 mm), fast response, stainless steel penetration probe is ideal for liquids or semi-solids i.e. soft rubber and other similar materials.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to 250 °C	123-159 323-159 (coiled lead)	
<p>NEEDLE PENETRATION PROBE</p>  <p> Ø1.8 x 130 mm</p>	<p>This fast response, stainless steel needle penetration probe is ideal for liquids or semi-solids i.e. soft rubber or plastic.</p> <ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -75 to 250 °C	123-100 323-100 (coiled lead)	
<p>OVEN PROBE</p>  <p> Ø3.3 x 130 mm</p>	<p>This oven probe has a stainless steel handle and a two metre PTFE high temperature lead. An oven probe without a handle is available.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe and lead temperature range -75 to 250 °C	133-170 133-173 (no handle)	
<p>RIGID BETWEEN PACK PROBE</p>  <p> Ø4.5 x 130 or 500 mm</p>	<p>This rigid, stainless steel between pack probe is strong and versatile, designed specifically for accurately measuring the temperature between packets and boxes.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -75 to 250 °C	123-060 (130 mm) 123-080 (500 mm) 323-060 (coiled lead) 130 mm only	
<p>HIGH TEMPERATURE PROBE</p>  <p>Ø1.5 x 130 mm</p>	<p>This flexible, mineral insulated (MI) probe can be bent to any shape without affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces.</p> <ul style="list-style-type: none">• Response time less than 2 seconds• Probe temperature range -40 to 1100 °C	123-204 323-204 (coiled lead)	
<p>HIGH TEMPERATURE PROBE</p>  <p>Ø3 x 130 mm</p>	<p>This flexible, mineral insulated (MI) probe can be bent to any shape without affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces.</p> <ul style="list-style-type: none">• Response time less than 3 seconds• Probe temperature range -40 to 1100 °C	123-212 323-212 (coiled lead)	
<p>HIGH TEMPERATURE PROBE</p>  <p>Ø3 x 300 mm</p>	<p>This extended, flexible, mineral insulated (MI) probe can be bent to any shape without affecting its performance. Ideal for measuring high temperatures i.e. fryers or furnaces.</p> <ul style="list-style-type: none">• Response time less than 4 seconds• Probe temperature range -40 to 1100 °C	123-213 323-213 (coiled lead)	

Please note: for handheld type T thermocouple probes, replace the third digit (3) of the order code with the number 7












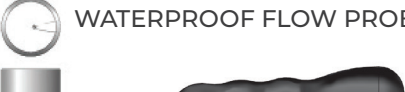

HANDHELD TYPE K OR T THERMOCOUPLE PROBES

			Order code
  Ø3 x 130 mm	BINDER PROBE	<p>This rounded tip, stainless steel probe is designed for inserting into Binder self-sealing glands to measure the temperature of vessels or radiators.</p> <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -75 to 250 °C 	123-240 323-240 (coiled lead)
	AIR OR GAS PROBE	<p>This stainless steel, fast response air or gas probe is ideal for measuring air temperature in chill cabinets, fridges, freezers, offices, storage areas and similar.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	123-300 323-300 (coiled lead)
	T-SHAPED AIR OR GAS PROBE	<p>This stainless steel T-shaped, shielded fast response air or gas probe is ideal for measuring the temperature in HVAC duct work, offices, storage areas and similar.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	123-310 323-310 (coiled lead)
	RIBBON SURFACE PROBE	<p>This precision, ribbon surface probe utilises flat ribbon technology that ensures a fast, accurate response with minimal heat loss. A right-angled version is also available.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	123-030 123-032 (right-angled)
	RIBBON SURFACE PROBE	<p>This precision, ribbon surface probe utilises flat ribbon technology that ensures a fast, accurate response with minimal heat loss. A right-angled version is also available.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	123-044 123-052 (right-angled)
	WATERPROOF SURFACE PROBE	<p>This waterproof, ribbon surface probe incorporates a moulded mini plug and utilises flat ribbon technology to ensure a fast, accurate response with minimal heat loss.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	123-046 323-046 (coiled lead)
	SURFACE PROBE	<p>This surface probe incorporates a spring-loaded copper disc sensing tip. The probe is ideal for a variety of surface temperature measurements.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -100 to 600 °C 	123-000* 323-000* (coiled lead)
	HEAVY-DUTY SURFACE PROBE	<p>This high temperature surface probe is ideal for measuring the temperature of griddles, hotplates etc. A right-angled version is also available</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -100 to 1000 °C 	123-020* 123-028* (right-angled)
	PENETRATION PROBE	<p>This small handled, stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids. A fast response version with a reduced tip is also available.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 	123-162 123-158 (reduced tip)

Please note: for handheld type T thermocouple probes, replace the third digit (3) of the order code with the number 7.






*Order codes 123-000, 123-020, 123-028 & 323-000 are not available in type T thermocouple

WATERPROOF TYPE K THERMOCOUPLE PROBES

			Order code
PENETRATION PROBE   Ø3.3 x 130 mm	This stainless steel, waterproof penetration probe is strong, versatile and incorporates a heavy-duty handle with a colour-coded end cap. Suitable for liquids and semi-solids. <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -75 to 250 °C 	 143-161  143-162  143-164  143-165  143-166  143-167	
REDUCED TIP PROBE   Ø6.35 x 300 mm	This extended, waterproof, stainless steel probe incorporates a reduced tip (Ø4.5 x 25 mm) and heavy-duty ribbed handle, ideal for heavy-duty applications including food processing, asphalt and other similar materials. <ul style="list-style-type: none"> • Response time less than 7 seconds • Probe temperature range -75 to 250 °C 		143-120
			343-120 (coiled lead)
BELL SURFACE PROBE  Ø19 x 130 mm	These fast response, waterproof heavy-duty surface probes utilise a bell-shaped housing with a thin, flat, stainless steel measuring disc that ensures a fast, accurate response. Ideal for measuring a variety of surface temperatures. <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -75 to 200 °C 		143-080 (straight)
			143-084 (45° angle)
			143-086 (90° angle)
WATERPROOF FLOW PROBE   Ø4.5 x 300 mm	These fast response, waterproof T-Shaped flow probes, are suitable for measuring air or water flow temperatures in a variety of applications. The shielded exposed junction thermocouple ensures a fast and accurate response to changes in temperature. <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 		143-310
			343-310 (coiled lead)

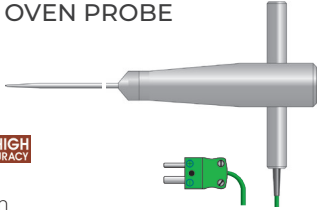


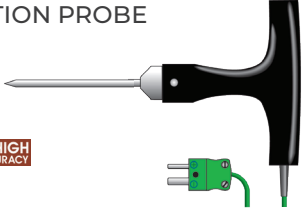


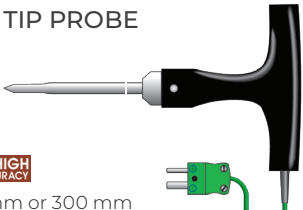


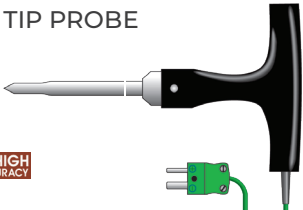


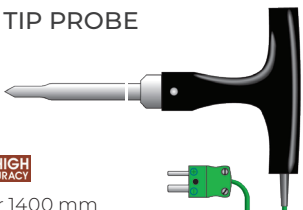


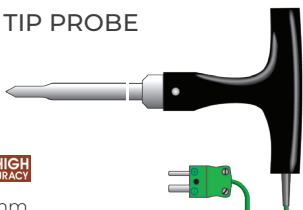


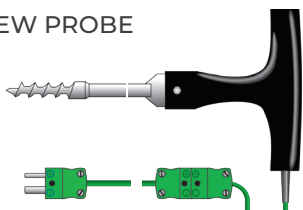


Please note: the above type K thermocouple probes are supplied with a moulded thermocouple connector and are waterproof to IP67 when connected to an instrument

PLUG-MOUNTED TYPE K THERMOCOUPLE PROBES

			Order code
INTERCHANGEABLE PROBE HANDLE  Ø25 x 151 mm	This probe handle incorporates a miniature thermocouple socket, to be used in conjunction with our range of plug-mounted probes. Supplied with a one metre coiled PU lead and miniature plug.		323-950
PENETRATION PROBE    Ø3.3 x 80 or 120 mm	This stainless steel, penetration probe is strong, versatile and ideal for liquids or semi-solids. A fast response version with reduced tip (Ø1.8 x 25 mm) is also available. <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 		133-161 (120 mm)
			133-153 (120 mm reduced tip)
SURFACE PROBE  Ø8 x 120 mm	This stainless steel surface probe uses flat ribbon technology ensuring a fast, accurate response with minimal heat loss. A right-angled version is also available. <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 		133-154 (80 mm reduced tip)
			133-045
			133-046 (right-angled)

















Please note: for handheld type T thermocouple probes, replace the third digit (3) of the order code with the number 7

HEAVY-DUTY TYPE K OR T THERMOCOUPLE PROBES

			Order code
T SHAPED OVEN PROBE    Ø3.3 x 130 mm	<p>This strong oven penetration probe incorporates a stainless steel T-shaped handle, and a two metre PTFE high temperature lead. Ideal for continuous monitoring applications or where a nylon or polypropylene handle cannot be used.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 		133-174
PENETRATION PROBE    Ø4 x 100 mm	<p>This robust, stainless steel penetration probe incorporates a T-shaped polypropylene handle and is ideal for a variety of heavy-duty applications including food processing and other similar industries.</p> <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -75 to 250 °C 		133-124
REDUCED TIP PROBE    Ø6.35 x 100 mm or 300 mm	<p>This robust, stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø4.5 x 25 mm) for faster response. Ideal for a variety of heavy-duty applications including food processing etc.</p> <ul style="list-style-type: none"> • Response time less than 9 seconds • Probe temperature range -75 to 250 °C 		133-126 (100 mm) 133-120 (300 mm)
REDUCED TIP PROBE    Ø8 x 500 mm	<p>This extended robust, stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for a variety of heavy-duty applications including food processing etc.</p> <ul style="list-style-type: none"> • Response time less than 20 seconds • Probe temperature range -75 to 250 °C 		133-130
REDUCED TIP PROBE    Ø9.5 x 1000 or 1400 mm	<p>This Ø9.5 mm stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for applications where a longer probe is required, i.e. grain silos.</p> <ul style="list-style-type: none"> • Response time less than 20 seconds • Probe temperature range -75 to 250 °C 		133-136 (1000 mm) 133-135 (1400 mm)
REDUCED TIP PROBE    Ø9.5 x 2000 mm	<p>This extended stainless steel, reinforced probe incorporates a T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for applications where a very long probe is required, i.e. grain silos.</p> <ul style="list-style-type: none"> • Response time less than 20 seconds • Probe temperature range -75 to 250 °C 		133-133
CORKSCREW PROBE    Ø8 x 100 mm	<p>This stainless steel probe incorporates a heavy-duty T-shaped polypropylene handle and a corkscrew design sensing tip. Ideal for industrial and food processing applications. Supplied with a one metre PU detachable lead.</p> <ul style="list-style-type: none"> • Response time less than 9 seconds • Probe temperature range -75 to 250 °C 		133-175




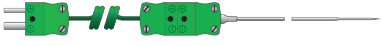


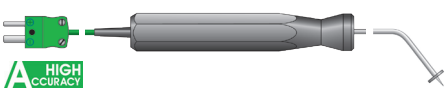



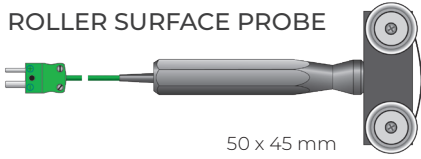


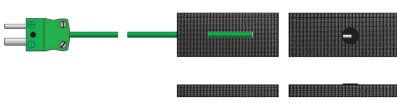
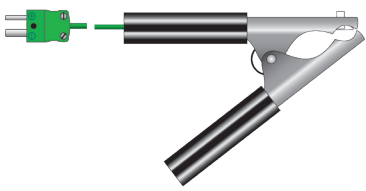
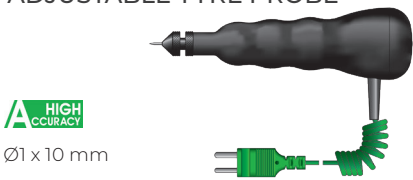

Please note: for handheld type T thermocouple probes, replace the third digit (3) of the order code with the number 7

FAST RESPONSE K OR T THERMOCOUPLE WIRE PROBES

			Order code
<div>PTFE WIRE PROBE</div> <div></div> <div><div> HIGH ACCURACY</div><div> HIGH ACCURACY</div><div>Ø1.5 x 1000 or 2000 mm</div></div>	<div>This PTFE insulated, exposed junction wire probe is suitable for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request.</div> <div><ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -75 to 250 °C</div>	<div>133-362 (1000 mm)</div> <div>133-363 (2000 mm)</div>	
<div>HEAVY-DUTY PTFE WIRE PROBE</div> <div></div> <div><div> HIGH ACCURACY</div><div> HIGH ACCURACY</div><div>Ø2.4 x 1000 or 2000 mm</div></div>	<div>This heavy-duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. Extended probe lengths over two metres are available upon request.</div> <div><ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -75 to 250 °C</div>	<div>133-372 (1000 mm)</div> <div>133-373 (2000 mm)</div>	
<div>FIBREGLASS WIRE PROBE</div> <div></div> <div><div> HIGH ACCURACY</div><div> HIGH ACCURACY</div><div>Ø1.5 x 1000 or 2000 mm</div></div>	<div>This fibreglass, exposed junction wire probe is ideal for measuring the air temperature of ovens, hot cupboards and similar appliances. Extended probe lengths over two metres are available upon request.</div> <div><ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -60 to 350 °C</div>	<div>133-382 (1000 mm)</div> <div>133-383 (2000 mm)</div>	
<div>HIGH TEMPERATURE WIRE PROBE</div> <div></div> <div><div> HIGH ACCURACY</div><div> HIGH ACCURACY</div><div>Ø3 x 1000 or 2000 mm</div></div>	<div>This high temperature, fibreglass wire probe is insulated with a stainless steel braid and is ideal for ovens, hot cupboards and similar appliances. Supplied with a one or two metre stainless steel braided lead.</div> <div><ul style="list-style-type: none">• Response time less than 1 second• Probe temperature range -60 to 600 °C</div>	<div>133-387 (1000 mm)</div> <div>133-389 (2000 mm)</div>	
<div>ATTACHMENT PADS</div> <div></div> <div>12 x 18 mm</div>	<div>These easy-to-use attachment pads are recommended for attaching small diameter wire thermocouples to surfaces. Supplied in packs of 25.</div> <div><ul style="list-style-type: none">• For use over the range of -50 to 200 °C</div>	600-485	
<div>PROBE EXTENSION LEAD - STRAIGHT</div> <div></div> <div>1000 or 2000 mm</div>	<div>This probe extension lead enables the user to connect to any ETI thermocouple type K probe, extending reach up to an additional 1000 or 2000 mm. Supplied with a PVC straight lead with MPK to MSK.</div>	<div>627-732 (1000 mm)</div> <div>627-733 (2000 mm)</div>	
<div>PROBE EXTENSION LEAD - COILED</div> <div></div> <div>1000 or 2000 mm</div>	<div>This probe extension lead enables the user to connect to any ETI thermocouple type K probe, extending reach up to an additional 1000 or 2000 mm. Supplied with a PU coiled lead with MPK to MSK.</div>	<div>627-740 (1000 mm)</div> <div>627-741 (2000 mm)</div>	
<div>MINIATURE PLUG OR SOCKET</div> <div></div> <div>MPKMSK</div> <div>16 x 19 mm16 x 25 mm</div>	<div>Miniature thermocouple plugs and sockets are a must for accurate readings when joining probe cables. The flat pins (plug) and socket are manufactured from compatible thermocouple material and can accommodate wires up to Ø0.5 mm</div> <div><ul style="list-style-type: none">• Temperature range -50 to 105 °C</div>	<div>625-217 (plug)</div> <div>421-501 (socket)</div>	


















Please note: for type T thermocouple wire probes, replace the third digit (3) of the order code with the number 7

SPECIALIST TYPE K OR T THERMOCOUPLE PROBES

		Order code
MINIATURE PROBE    Ø1.4 mm reducing to Ø1 mm tip x 50 mm	<p>This miniature, stainless steel needle probe is supplied with a one or two metre PTFE lead. Ideal for measuring small semi-solid items and sous vide cooking.</p> <ul style="list-style-type: none"> • Response time less than 1 second • Probe temperature range -75 to 250 °C 	133-180 (1m lead) 133-182 (2m lead)
FAST RESPONSE MEAT PROBE    Ø1 mm tip x 90 mm	<p>This fast response, meat penetration probe is specially designed for measuring burger patties etc. Supplied with a one metre coiled lead.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 	133-150
BURGER PROBE    Ø4.5 x 45 x 160 mm (6 or 12 mm tip)	<p>This burger probe has been specifically designed for use in fast food kitchens. The 12 mm stainless steel disc ensures the correct insertion depth (6 or 12 mm) every time.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -75 to 250 °C 	123-745 (6 mm tip) 123-746 (12 mm tip)
MAGNET SURFACE PROBE  Ø24 x 28 mm	<p>This magnet probe is supplied with a 500 mm PTFE lead. Ideal for monitoring the surface temperature of ferrous metals, e.g. radiators or hotplates.</p> <ul style="list-style-type: none"> • Response time less than 30 seconds • Probe temperature range -20 to 80 °C 	133-017
ROLLER SURFACE PROBE  50 x 45 mm	<p>These roller surface probes have either stainless steel or PTFE wheels and are designed for measuring moving surfaces. Max. speed 100 m/min.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 	123-038 (s/steel) 123-036 (PTFE)
WEIGHTED GRIDDLE SURFACE PROBE   Ø64 x 120 mm	<p>This griddle probe has been designed with a unique self-retracting fast-responding stainless-steel disc and is supplied with a one metre armoured lead. Measuring Ø64 x 120 mm</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -50 to 250 °C 	143-018 (armoured)
VELCRO PIPE PROBE  20 x 500 mm	<p>This 500 mm wrap-around velcro pipe probe is suitable for both medium and large pipe temperature measurement in the HVAC industry. Supplied with a two metre lead.</p> <ul style="list-style-type: none"> • Response time less than 30 seconds • Probe temperature range -10 to 100 °C 	133-080
PIPE CLAMP PROBE 	<p>This robust, pipe clamp probe is suitable for measuring the surface temperature of pipes in refrigeration, heating and ventilating systems etc. Simple clamp-on design for simplicity of use, suitable for pipes from Ø6 to Ø30 mm.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -10 to 100 °C 	133-040
ADJUSTABLE TYRE PROBE   Ø1 x 10 mm	<p>This fast response probe has an adjustable depth stop (1 to 10 mm) which the user can manually set. Specifically designed for measuring tyre temperatures, supplied with a one metre coiled lead and moulded thermocouple connector. Type K Only.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 	343-100

Please note: for type T thermocouple wire probes, replace the third digit (3) of the order code with the number 7

THERMADATA® WIFI LOGGER THERMOCOUPLE PROBES

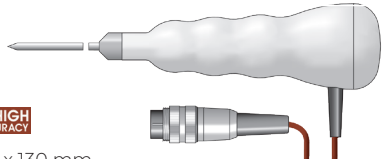
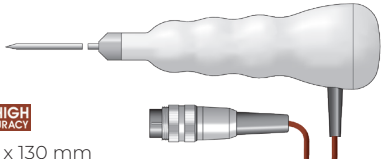
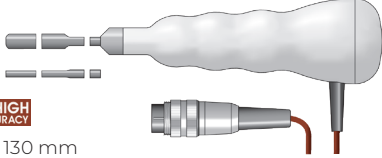

		Order code
GENERAL PURPOSE PROBE    $\varnothing 3.3 \times 100 \text{ mm}$	<p>This stainless steel probe is suitable for a wide range of applications. Supplied with a one, three or five metre PTFE insulated lead and connector.</p> <ul style="list-style-type: none"> • Response time less than 5 seconds • Probe temperature range -75 to 250 °C 	133-158 (1000 mm) 133-220 (3000 mm) 133-222 (5000 mm)
FOOD SIMULANT PROBE    $9 \times 100 \times 100 \text{ mm}$	<p>This polypropylene simulant probe is designed for use in refrigeration, food storage and chill cabinets. Supplied with a one, three or five metre PTFE insulated lead and connector.</p> <ul style="list-style-type: none"> • Probe temperature range -20 to 100 °C 	133-350 (1000 mm) 133-352 (3000 mm) 133-354 (5000 mm)
Ø4.8MM STANDARD PROBE    $\varnothing 4.8 \times 100 \text{ mm}$	<p>This Ø4.8 mm general purpose, stainless steel probe is ideal for a variety of applications. Supplied with a two metre PVC lead.</p> <ul style="list-style-type: none"> • Response time less than 17 seconds • Probe temperature range -50 to 100 °C 	133-453
Ø6MM STANDARD PROBE    $\varnothing 6 \times 100 \text{ mm}$	<p>This Ø6 mm general purpose, stainless steel probe is ideal for a variety of applications. Supplied with a two metre PVC lead.</p> <ul style="list-style-type: none"> • Response time less than 20 seconds • Probe temperature range -50 to 100 °C 	133-448
Ø6.35MM STANDARD AIR PROBE    $\varnothing 6.35 \times 150 \text{ mm}$	<p>This Ø6.35 mm stainless steel air or gas probe is ideal for measuring air temperatures in chill cabinets, fridges, freezer, storage areas or similar. Supplied with a two metre PVC lead.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -50 to 100 °C 	133-499
MINERAL INSULATED PROBES  $\varnothing 1.5 \times 180, 500 \text{ or } 1000 \text{ mm}$	<p>These Ø1.5 mm high temperature MI probes can be bent to any shape without affecting performance. Supplied with a plain pot seal and a two metre PTFE lead.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -200 to 1100 °C 	133-420 (180 mm) 133-421 (500 mm) 133-422 (1000 mm)
MINERAL INSULATED PROBES  $\varnothing 3 \times 180, 500 \text{ or } 1000 \text{ mm}$	<p>These Ø3 mm high temperature MI probes can be bent to any shape without affecting performance. Supplied with a plain pot seal and a two metre PTFE lead.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -200 to 1100 °C 	133-425 (180 mm) 133-428 (500 mm) 133-429 (1000 mm)

Please note: Longer leads are available for the probes above, please contact our technical sales office for more information

CUSTOMISED & SPECIAL TEMPERATURE PROBES

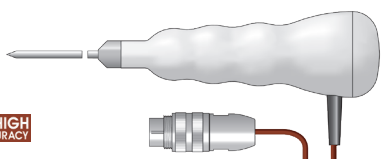

ETI manufactures a wide range of fully interchangeable, fast response and special probes to meet most customer requirements but, if the probe you need is not in our catalogue or on our website, ask a member of our sales team and we will do our best to manufacture the probe to your specification. It is vital to choose the correct probe for a specific purpose. If you have any requirements outside the specifications of our current range, please call our sales office on 01903 202151 or email technical@etiltd.com

LUMBERG CONNECTOR TYPE T THERMOCOUPLE PROBES

		Order code
PENETRATION PROBE  A HIGH ACCURACY Ø3.3 x 130 mm	This stainless steel penetration probe is strong, versatile and incorporates a heavy-duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. <ul style="list-style-type: none"> • Response time less than 5 seconds • Probe temperature range -75 to 250 °C 	177-166
FAST RESPONSE PROBE  A HIGH ACCURACY Ø2.6 x 130 mm	This stainless steel, fast response, needle penetration probe incorporates a heavy-duty ribbed, polypropylene handle. Suitable for liquids and soft semi-solid materials including fish, fruit and other soft or delicate materials. <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -75 to 250 °C 	177-100
RIGID BETWEEN PACK PROBE  A HIGH ACCURACY Ø6 x 130 mm	This rigid, stainless steel, between pack probe is strong, versatile and incorporates a heavy-duty ribbed, polypropylene handle. The probe has been specifically designed to measure between packs or boxes of produce. <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -75 to 250 °C 	177-060
AIR OR GAS WIRE PROBE  A HIGH ACCURACY Ø2.4 x 1000 mm PTFE lead	This fast response, air or gas wire probe is ideal for measuring air temperatures in fridges, freezers, chill cabinets and similar. Supplied complete with a one metre PTFE lead. <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -75 to 250 °C 	177-372


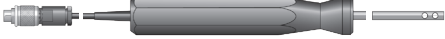


Please note: the above type T thermocouple probes are suitable for use with the Therna 22 & Therna 22 Plus

WATERPROOF TYPE T THERMOCOUPLE PROBES

		Order code
PENETRATION PROBE  A HIGH ACCURACY Ø3.3 x 130 mm	This waterproof, stainless steel, penetration probe with Lumberg connector is strong, versatile and incorporates a heavy-duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. <ul style="list-style-type: none"> • Response time less than 5 seconds • Probe temperature range -75 to 250 °C 	177-266
PENETRATION PROBE  A HIGH ACCURACY Ø3.3 x 100 mm	This waterproof, stainless steel, plug-mounted probe with Lumberg connector is strong, versatile and ideal for measuring liquids, semi-solids and granular materials. <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -75 to 250 °C 	177-200

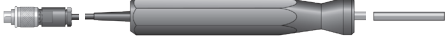

Please note: the above type T thermocouple probes (177-266 & 177-200) are suitable for use with the Therna 22 Plus and are waterproof to IP67 when connected to an instrument

PT100 CLASS A TEMPERATURE PROBES

		Order code
PENETRATION PROBE  Ø3.3 x 130 mm	This stainless steel penetration probe is strong, versatile and ideal for measuring liquids and semi-solids accurately in a variety of applications. <ul style="list-style-type: none"> • Response time less than 6 seconds • Probe temperature range -100 to 200 °C 	160-160
AIR OR GAS PROBE  Ø3.3 x 130 mm	This stainless steel air or gas probe is ideal for measuring air or gas temperatures accurately in rooms and ducts in HVAC and industrial applications. <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -100 to 200 °C 	160-300
LIQUID PROBE  Ø3.3 x 130 mm	This liquid probe features a rigid, stainless steel stem with a flat tip. The probe is suitable for accurate temperature measurement in a wide variety of laboratory applications. <ul style="list-style-type: none"> • Response time less than 6 seconds • Probe temperature range -100 to 200 °C 	160-220
AIR OR GAS WIRE PROBE  Ø3.7 x 30 mm with 1000 mm FEP lead	This FEP insulated air or gas wire probe is ideal for measuring air or gas temperatures accurately in a variety of HVAC and industrial applications. <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -100 to 200 °C 	160-372

Please note: the above PT100 Class A probes are suitable for use with the Precision 0.1 °C thermometer

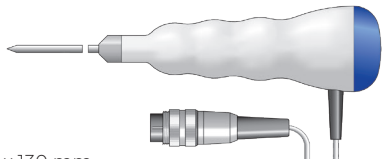
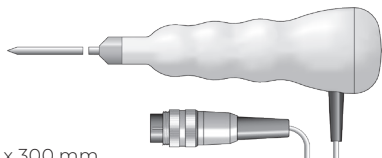
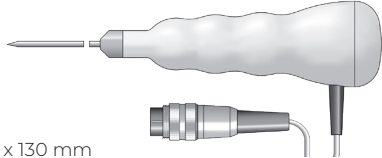
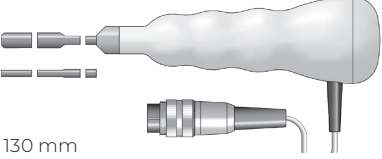
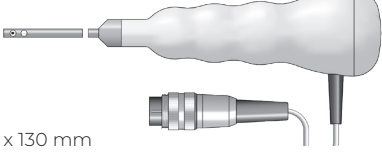
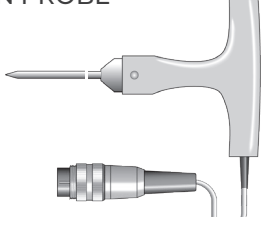
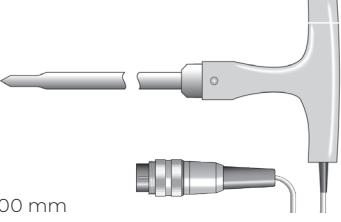
PT100 1/10TH DIN TEMPERATURE PROBES

		Order code
LIQUID PROBE  Ø3.3 x 130 mm	This handheld liquid probe features a rigid, stainless steel stem with a flat tip. Suitable for high accuracy temperature measurement in a wide variety of laboratory applications. <ul style="list-style-type: none"> • Response time less than 8 seconds • Probe temperature range -200 to 300 °C 	160-222
LIQUID PROBE  Ø4.8 x 250 mm with 2000 mm PTFE lead	This liquid probe features a rigid, stainless steel stem with a flat tip. Suitable for high accuracy temperature measurement in a wide variety of laboratory applications. <ul style="list-style-type: none"> • Response time less than 14 seconds • Probe temperature range -200 to 300 °C 	160-446

Please note: accuracy of the above PT100 1/10th DIN probes is ± 0.03 °C ± 0.1 % of reading between -100 °C to 200 °C otherwise ± 0.2 % of reading. The above probes are suitable for use with the Precision Plus 0.01 °C thermometer

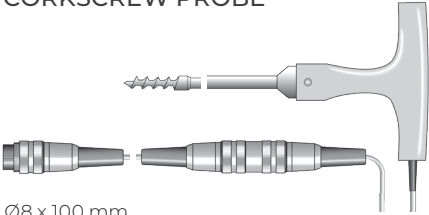



All PT100's listed on this page are fitted with a Binder Plug.

NTC THERMISTOR PROBES WITH LUMBERG CONNECTOR

			Order code
PENETRATION PROBE  Ø3.3 x 130 mm	This stainless steel penetration probe is strong, versatile and incorporates a heavy-duty, ribbed, polypropylene handle with a colour-coded end cap. Ideal for measuring liquids, semi-solids and granular materials. <ul style="list-style-type: none"> ● Response time less than 5 seconds ● Probe temperature range -40 to 150 °C 	<ul style="list-style-type: none"> ● 174-161 ● 174-162 ● 174-164 ● 174-165 ● 174-166 ● 174-167 	
PENETRATION PROBE  Ø3.3 x 300 mm	This extended, stainless steel penetration probe is strong, versatile and incorporates a heavy-duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials. <ul style="list-style-type: none"> ● Response time less than 5 seconds ● Probe temperature range -40 to 150 °C 		174-168
FAST RESPONSE PROBE  Ø2.6 x 130 mm	This stainless steel, fast response, needle penetration probe incorporates a heavy-duty ribbed, polypropylene handle. The probe is suitable for liquids and soft semi-solids including fish, fruit and other delicate materials. <ul style="list-style-type: none"> ● Response time less than 4 seconds ● Probe temperature range -40 to 150 °C 		174-100
RIGID BETWEEN PACK PROBE  Ø6 x 130 mm	This rigid, stainless steel between pack probe is strong, versatile and incorporates a heavy-duty ribbed, polypropylene handle. The probe has been specifically designed to measure between packs or boxes of produce. <ul style="list-style-type: none"> ● Response time less than 3 seconds ● Probe temperature range -40 to 150 °C 		174-060
AIR OR GAS PROBE  Ø3.3 x 130 mm	This stainless steel, fast response air or gas probe incorporates a heavy-duty ribbed, polypropylene handle. The probe is ideal for measuring air temperature in refrigeration units, storage areas and other similar applications. <ul style="list-style-type: none"> ● Response time less than 2 seconds ● Probe temperature range -40 to 150 °C 		174-300
PENETRATION PROBE  Ø4 x 100 mm	This robust, stainless steel penetration probe incorporates a heavy-duty, T-shaped polypropylene handle. The strong, durable probe is suitable for a wide variety of heavy-duty, general purpose industrial or food processing applications. <ul style="list-style-type: none"> ● Response time less than 4 seconds ● Probe temperature range -40 to 150 °C 		170-169
REDUCED TIP PROBE  Ø9.5 x 1000 mm	This extended, robust Ø9.5 mm stainless steel reinforced probe incorporates a heavy-duty, T-shaped polypropylene handle and a reduced sensing tip (Ø6.35 x 25 mm) for faster response. Ideal for a wide variety of heavy-duty, general purpose industrial or food processing applications. <ul style="list-style-type: none"> ● Response time less than 15 seconds ● Probe temperature range -40 to 150 °C 		170-136

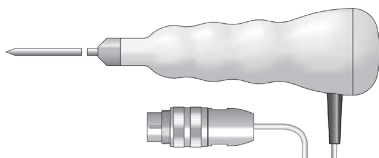

Please note: the above NTC thermistor probes are suitable for use with the Therna 20, 22, 22 Plus & 8100 Plus

NTC THERMISTOR PROBES WITH LUMBERG CONNECTOR

		Order code
CORKSCREW PROBE  Ø8 x 100 mm	<p>This frozen food probe incorporates a heavy-duty T-shaped, polypropylene handle and a corkscrew design sensing tip. Ideal for measuring deep frozen foods or other frozen materials. Supplied with a one metre PVC detachable lead.</p> <ul style="list-style-type: none"> • Response time less than 9 seconds • Probe temperature range -40 to 150 °C 	170-175
FOOD SIMULANT PROBE  9 x 100 x 100 mm	<p>This polypropylene probe is designed for use in food storage, chill cabinets and refrigeration where simulation of food temperature is required. The probe incorporates a one metre PUR /PVC lead and compatible Lumberg connector.</p> <ul style="list-style-type: none"> • Probe temperature range -20 to 100 °C 	170-350
AIR OR GAS WIRE PROBE  Ø3.7 x 30 mm with 1000 mm FEP lead	<p>This fast response, air or gas wire probe is ideal for measuring air temperature in chill cabinets, fridges, freezers, offices, storage areas and similar. Supplied with a one metre FEP lead.</p> <ul style="list-style-type: none"> • Response time less than 2 seconds • Probe temperature range -40 to 150 °C 	170-372
FOIL BETWEEN PACK PROBE  40 x 50 mm with 1000 mm FEP lead	<p>This easy-to-use, flexible, fast response, foil between pack probe has been designed to measure between packs or boxes of produce in a variety of applications.</p> <ul style="list-style-type: none"> • Response time less than 3 seconds • Probe temperature range -20 to 75 °C 	170-090

Please note: the above NTC thermistor probes are suitable for use with the Therna 20, 22, 22 Plus & 8100 Plus

WATERPROOF NTC THERMISTOR PROBES

		Order code
PENETRATION PROBE  Ø3.3 x 130 mm	<p>This waterproof, stainless steel penetration probe with Lumberg connector is versatile, strong and incorporates a heavy-duty, ribbed, polypropylene handle with a white end cap. Ideal for measuring liquids, semi-solids and granular materials.</p> <ul style="list-style-type: none"> • Response time less than 5 seconds • Probe temperature range -40 to 150 °C 	174-266
PENETRATION PROBE  Ø3.3 x 100 mm	<p>This waterproof, stainless steel plug-mounted penetration probe with Lumberg connector is versatile and strong. Ideal for measuring liquids, semi-solids and granular materials in a wide variety of applications.</p> <ul style="list-style-type: none"> • Response time less than 4 seconds • Probe temperature range -40 to 150 °C 	172-000

Please note: the above NTC thermistor probes (174-266 & 172-000) are suitable for use with the Therna 22 Plus & 8100 Plus and are waterproof to IP67 when connected to an instrument

INFRARED THERMOMETERS



Infrared thermometers measure the temperature of surfaces. They're quick and easy to use. However, if used incorrectly or for the wrong application, readings could be inaccurate and put people at risk.

INFRARED APPLICATIONS

Infrared thermometers are ideal for applications where a distance needs to be maintained between the person taking the readings and the item being measured. For example:

- Hot surfaces like fires or hotplates
- Hard to reach areas such as pipes

Because infrared thermometers only take the surface reading of the first physical object they come into contact with, they would not provide an accurate reading for the following applications:

- Core food temperatures
- Air temperatures
- Items covered by materials like cling film

EMISSIVITY VALUES

Different surfaces have varying emissivities. If your thermometer has adjustable emissivity, make sure to set it accordingly for your application. See the table opposite for a small selection of emissivity values, or visit etilttd.com/emissivity for a thorough guide.

Aluminium (anodised)	0.77	Plastic (black)	0.95
Brass (oxidised)	0.61	Porcelain (glazed)	0.92
Brick (red)	0.90	Rubber	0.95
Cement	0.54	Skin (human)	0.98
Copper (oxidised)	0.65	Soil (dry)	0.92
Glass	0.92	Stainless steel	0.59
Paper (white)	0.68	Water	0.95
Perspex	0.86	Water (ice)	0.96
Pipe (glazed)	0.83	Water (frost)	0.98
Plastic (white)	0.84	Wood (planed)	0.90

IR THERMOMETER CARE

It's important to use, clean and store your infrared thermometer properly to ensure accurate readings. We recommend following these tips:

- Keep the thermometer lens clean and free of debris
- Give your thermometer plenty of time to acclimatise to hot or cold environments
- Stand straight on and as close as possible to the surface being measured
- Check the accuracy of your readings regularly using a reliable calibration method

THERMAPEN® IR THERMOMETER

- Patented, automatic 360° rotational display
- Adjustable emissivity for different surfaces
- Motion-sensing sleep mode - probe only
- High accuracy - ideal for HACCP procedures

The Thermapen IR is two instruments in one compact unit, combining the advanced technology of two ETI designed and manufactured products: the RayTemp 2 infrared thermometer and Thermapen thermometer. Now available in red.

Housed in a robust PC/ABS case that includes Biomaster product protection that reduces bacterial growth, the Thermapen IR incorporates a motion-sensing sleep mode (penetration probe only) which automatically turns the instrument on/off when set down or picked up, maximising battery life.

• Infrared thermometer

Simply aim the infrared thermometer at the target and press the scan button to display the surface temperature.
Please Note: the infrared non-contact function will only measure when the probe is in the closed position.

The Thermapen IR thermometer incorporates a max/min temperature function accessed via the mode button (IR only). The distance to target ratio is 5:1, therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be adjusted between 0.1 and 1, if required via the mode button.

• Penetration probe

Opening the probe puts the instrument into probe mode, enabling you to take liquid or the core temperature of semi-solid food products using the fast response, stainless steel penetration probe (Ø3.3 x 110 mm). Displaying the temperature in just 3 seconds. The probe conveniently folds back through 180° into the side of the instrument when not in use.



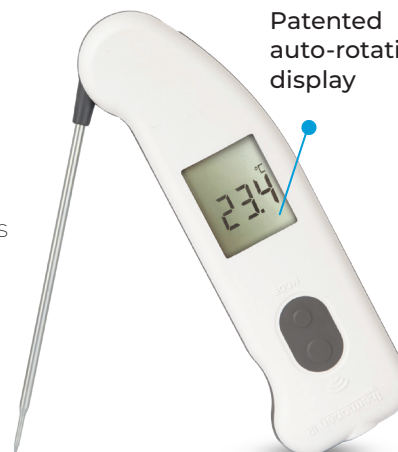
**NEW
COLOUR**



Thermapen IR
with air probe
(228-114)



Patented
auto-rotating
display



Bluetooth®

model available
see page 56



Order code	Description
228-065	Thermapen IR - white
228-045	Thermapen IR - red
228-114	Thermapen IR with air probe
830-480	Protective silicone cover
830-001	Zip pouch
832-002	Stainless steel wall bracket
830-485	Silicone cover - glow in dark

Specification	Thermapen IR
Range - infrared	-49.9 to 349.9 °C
Range - probe	-49.9 to 299.9 °C
Resolution	0.1 or 1 °C/°F - user selectable
Accuracy - infrared	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Field of view	Target ratio 5:1
Emissivity	0.95 default - adjustable 0.1 to 1
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1,000 hours - continuous use
Display	12 mm (horizontal) & 10 mm (vertical) LCD
Dimensions	19 x 50 x 157 mm
Weight	125 grams
FREE traceable certificate of calibration included (probe & IR)	

INFRARED

IR-POCKET THERMOMETER

- LED spot alignment - safer than a laser
- Display hold function
- Lock function for continuous measurement
- Max/min memory function

The IR-Pocket thermometer is a non-contact infrared thermometer that has an easy-to-read, LCD display with low battery indication. Simply aim at the target and press the measure button to display the surface temperature instantly. The IR-Pocket indicates temperature over the range of -9.9 to 199.9 °C with an assured accuracy of ±2 % of reading or ±2°C, whichever is greater.

This thermometer features a two-button keypad, pressing the mode button allows the user to access a variety of functions, i.e. max/min, °C/°F, lock and emissivity. The lock function allows for continuous temperature measurement and the emissivity is adjustable so the user can measure a variety of surface types. An auto-power-off facility automatically turns the instrument off after 15 seconds, maximising battery life.

The default emissivity is 0.95 but is adjustable to enable temperature measurement of a variety of surface types.

For some useful infrared thermometer tips, or to download our infrared thermometer guide, please visit our website.



LED spot alignment

The unit incorporates LED spot alignment, which allows the user to precisely target the diameter of the area to be measured. The LED pointer is safer for the eyes than laser pointers. As you move closer or further from the target the LED spot changes diameter indicating the area being measured.



● LED pointer



Order code	Description
814-060	IR-Pocket

Specification	IR-Pocket
Range	-9.9 to 199.9 °C
Resolution	0.1 °C/°F
Accuracy	±2 °C or ±2 % whichever is greater
Field of view	Target ratio 1:1
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	2 x 1.5 volt AAA - 20 hours continuous use
Display	Custom LCD
Dimensions	25 x 52 x 100 mm
Weight	88 grams

RAYTEMP® 2 IR THERMOMETER

- High accuracy $\pm 1^\circ\text{C}$ over the range 0 to 100°C
- FREE traceable certificate of calibration
- Displays ambient temperature
- Records the max/min temperatures

Designed and manufactured in the UK, the RayTemp 2 infrared, non-contact thermometer features a large, easy-to-read LCD display and a three-button keypad, incorporating measure, mode and max/min functions. Simply aim at the target and press the measure button to display the surface temperature, over the range of -49.9 to 349.9°C with a 0.1°C or 1°C resolution and assured accuracy of $\pm 1^\circ\text{C}$ over the range 0 to 100°C .

Incorporating a 5:1 optic ratio (target distance ratio) and a fixed emissivity of 0.95 making it suitable for a wide range of food and industrial applications, each RayTemp 2 is housed in a robust ABS case that contains Biomaster product protection that reduces bacterial growth.

The unit does not incorporate laser alignment, which will appeal to those who are health and safety conscious and do not require this feature.

In addition, it promotes the user to get closer to the object being measured. Ideal in an environment where accuracy is important.



model available
see page 60



OPTIONAL ACCESSORIES:

- Protective silicone cover.
Various colours are available - see page 14
- Stainless steel wall bracket (832-050)
& white silicone cover (screws not supplied)



Order code	Description
228-020	RayTemp 2
832-050	Therma series s/s wall bracket & cover
830-221	Protective silicone cover - white*

*Various colours are available. See page 14.

Specification	RayTemp 2
Range	-49.9 to 349.9°C
Resolution	0.1°C & 1°C
Accuracy	$\pm 1^\circ\text{C}$ (0 to 100°C) otherwise $\pm 2^\circ\text{C}$ or $\pm 2\%$ of reading whichever is greater
Field of view	Target ratio 5:1
Emissivity	0.95 fixed
Battery & life	3 x 1.5 volt AAA - 5,000 hours continuous use
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

FREE traceable certificate of calibration included

MINI RAYTEMP® INFRARED THERMOMETER

- Target distance/diameter ratio 12:1
- Laser dot alignment
- Backlit LCD display
- Compact, lightweight & easy-to-use

The Mini RayTemp infrared thermometer is a compact, lightweight and low cost infrared thermometer. Simply aim and pull the trigger to display the surface temperature of the item being measured.

Measuring temperature over the range of -50 to 330 °C with an assured accuracy of ± 2 °C over the range of 0 to 330 °C, outside of this range (-50 to 0 °C) accuracy is ± 4 °C or ± 4 % whichever is greater. The Mini RayTemp has a clear, easy-to-read, LCD display with low battery indication, backlight and an auto-power-off facility that turns the instrument off after ten seconds, maximising battery life.

Ideal for numerous temperature measurement applications where contact with the item to be measured is an issue. The Mini RayTemp features laser assisted alignment as standard, to assist in pin-pointing the area of measurement.

The unit incorporates a 12:1 optic ratio (target distance/diameter ratio) and a fixed emissivity of 0.95 making it suitable for a wide range of food and industrial applications.

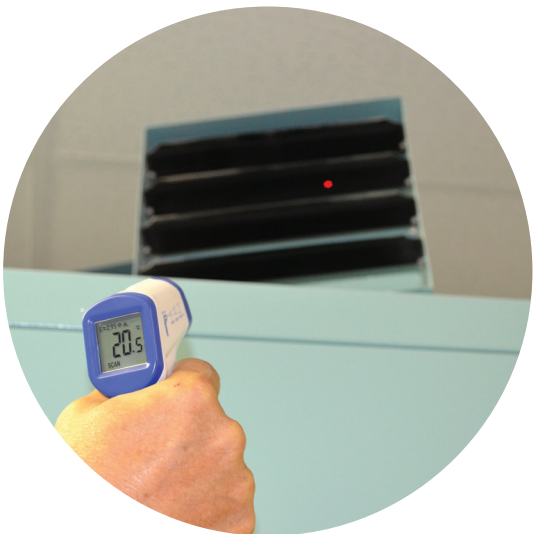
- **Low cost calibration checker**

The Comparator (814-132) provides an inexpensive way of checking the temperature of infrared thermometers when used in conjunction with a Reference thermometer, see pages 99 and 100 for details.



OPTIONAL ACCESSORY:

- Protective nylon pouch with belt strap (830-040)



Order code	Description
814-080	Mini RayTemp
830-040	Protective nylon pouch
814-132	Comparator

Specification	Mini RayTemp
Range	-50 to 330 °C
Resolution	0.1 °C/°F
Accuracy	± 2 °C (0 to 330 °C) otherwise ± 4 °C or ± 4 % whichever is greater
Field of view	Target ratio 12:1
Emissivity	0.95 fixed
Battery & life	9 volt PP3 - 80 hours continuous use
Display	Custom LCD
Dimensions	36 x 88 x 131 mm
Weight	143 grams



PIZZA IR THERMOMETER

- Circular laser for precise targeting
- Backlit display
- Auto power-off function
- Accurate readings up to 550 °C

The NEW Pizza IR thermometer is a compact, lightweight, and easy-to-use infrared thermometer that provides fast and accurate temperature readings. It is the ideal tool to determine when your pizza oven's floor is ready to cook the perfect pizza.

The device features a 13-dot circular laser that offers precise targeting, with a fixed emissivity of 0.95. To display the surface temperature, simply aim and pull the trigger.

The thermometer is housed in a soft-touch case with a white backlit display and an auto-power off feature that turns the unit off after 10 seconds.



NEW

- 13-dot circular laser that offers precise targeting



INFRARED



Order code	Description
814-090	Pizza IR thermometer

Specification	Pizza IR thermometer
Range	-50 to 550 °C
Resolution	0.1 °C
Accuracy	±2 % or 2 °C (0 to 550 °C) otherwise ±4 °C
Distance to target	12:1
Emissivity	0.95 fixed
Battery	9V PP3
Battery life	38 hours
Dimensions	42 x 100 x 155 mm
Weight	186 grams

RAYTEMP® 3 INFRARED FOOD THERMOMETER

- High accuracy over the critical food range
- Circular laser for precise targeting
- Temperature range -60 to 500 °C
- Compact, lightweight & easy to use



The RayTemp 3 infrared food thermometer is ideal for use in the food industry. It is compact, lightweight and easy to use. Simply aim and pull the trigger to display the temperature of the item being measured. In addition the LCD will display the maximum temperature.

This instrument measures temperature over the range of -60 to 500 °C with an assured accuracy of ± 1 °C over the critical food range of 0 to 65 °C, outside of this range ± 2 °C or ± 2 % of reading, whichever is greater in an ambient temperature of between 15 °C and 25 °C, with a repeatability of ± 1 °C of reading.

The unit incorporates a clear, easy to read, LCD display with low battery, laser and backlight indication and an auto power off facility that turns the instrument off after 15 seconds, maximising battery life. The RayTemp 3 is ideal for measuring food surface temperatures, eliminating the need to touch or contaminate the food you are measuring, avoiding the risk of cross-contamination. The unit can be used by anyone as there is no need to focus or adjust the instrument.

Each RayTemp 3 features a single push button, allowing the user to select °C or °F. The thermometer also incorporates a circular laser, which allows you to precisely target the diameter of the area to be measured. As you move closer or further from the target the laser circle changes diameter. The unit incorporates a 12:1 optic ratio (target distance/diameter ratio) and a fixed emissivity of 0.97 making it more suitable for chilled and frozen foods, although this thermometer can be used for a wide range of other applications.



INFRARED

OPTIONAL ACCESSORIES:

- Protective nylon pouch with belt strap (830-040)
- ABS carrying case - ideal for transporting and securely storing the RayTemp 3 thermometer (834-740)



Comparator (814-132)

Diameter at spot:

0.5" 1" 2" 4"

Distance to object:

6" 12" 24" 48"



Order code	Description
814-040	RayTemp 3
830-040	Protective nylon pouch
834-740	ABS carrying case
814-132	Comparator

Specification	RayTemp 3
Range	-60 to 500 °C
Resolution	0.1 °C/ °F (-9.9 to 199.9 °C) or 1 °C
Accuracy	± 1 °C (0 to 65 °C) otherwise ± 2 °C or ± 2 % whichever is greater
Field of view	Target ratio 12:1
Emissivity	0.97 fixed
Battery & life	2 x 1.5 volt AAA - 140 hours continuous use
Display	Custom LCD
Dimensions	40 x 66 x 155 mm
Weight	180 grams

RAYTEMP® 8 INFRARED THERMOMETER

- Integral type K thermocouple socket
- Range IR -60 to 500 °C, probe -64 to 1370 °C
- Includes differential & average temperatures
- Target distance/diameter ratio 12:1

The RayTemp 8 portable infrared thermometer is compact, lightweight and easy-to-use. Simply aim and pull the trigger to display the temperature of the item being measured. The thermometer displays temperature over the range of -60 to 500 °C.

Featuring a clear, easy-to-read, LCD display with low battery indication, the RayTemp 8 incorporates an auto-power-off facility that turns the instrument off after 60 seconds, maximising battery life. The unit features a circular laser with centre dot indicator, which allows you to precisely target the diameter of the area to be measured. As you move closer or further from the target the laser circle changes diameter.

The three-button keypad, allows the user to select °C/°F and max/min. Additionally, the difference between the max and min temperature and the average temperature can be displayed.

- **Two instruments in one**
The RayTemp 8 incorporates a miniature thermocouple type K probe socket that enables a wide range of type K thermocouple probes to be used for a variety of temperature measurement applications, including air, liquid and surface temperatures. For details of compatible type K thermocouple probes, see pages 77 to 83.



INFRARED



Order code	Description
814-045	RayTemp 8
860-845	RayTemp 8 kit
830-040	Protective nylon pouch
The RayTemp 8 is exclusive of probe	

RAYTEMP 8 INFRARED KIT

Each kit contains:

- RayTemp 8 infrared thermometer (814-045)
- Penetration probe (123-160)
- FREE Box of 100 Probe Wipes (836-220)
- FREE ABS carrying case (834-740)



Specification	RayTemp 8
Range - infrared	-60 to 500 °C
Range - probe	-64 to 1370 °C
Resolution	0.1 °C/°F (-9.9 to 199.9 °C) or 1 °C
Accuracy - infrared	±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±1 °C or ±1 % of reading whichever is greater
Field of view	Target ratio 12:1
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	2 x 1.5 volt AAA - 180 hours continuous use
Display	Custom LCD
Dimensions	40 x 66 x 155 mm
Weight	185 grams

RAYTEMP® 28 INFRARED THERMOMETER

- Integral type K thermocouple socket
- Ideal for high temperature applications
- Dual laser for precise targeting
- Stores the last 12 readings

The RayTemp 28 is a professional infrared, non-contact thermometer with dual laser dot alignment, incorporating a 30:1 optic ratio (target distance/diameter ratio), enabling users to measure small targets from a distance or any item that is difficult to reach.

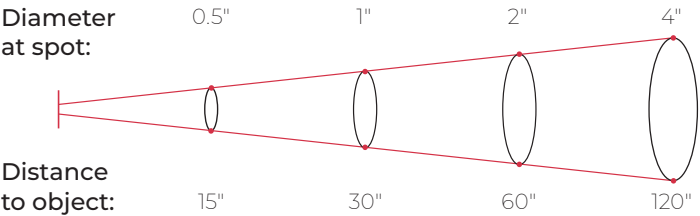
Featuring a three-button keypad, the RayTemp 28 allows the user to select the mode required, i.e. max, min, differential or average temperatures, view the max/min and configurable high/low alarms. Adjustable emissivity enabling the user to measure a variety of surface types.

The unit has a clear, easy-to-read, custom LCD display that features a backlight for when ambient light levels are low and an auto-power-off facility that turns the instrument off after 35 seconds, maximising battery life. The thermometer is housed in a robust IP54 splashproof case to help reduce the possibility of damage in harsh environments and is supplied in a protective ABS carrying case.



● **Two instruments in one**

The RayTemp 28 incorporates a miniature thermocouple type K probe socket that enables a wide range of type K thermocouple probes to be used for a variety of temperature measurement applications, including air, liquid and surface temperatures. For details of compatible type K thermocouple probes, see pages 77 to 83.



Order code	Description
814-028	RayTemp 28
The RayTemp 28 is exclusive of probe	

Specification	RayTemp 28
Range - infrared	-50 to 1350 °C
Range - probe	-50 to 1370 °C
Resolution	0.1 °C to 1000 °C thereafter 1 °C
Accuracy - infrared	±2 °C (0 to 1350 °C) otherwise ±4 °C or ±4 % of reading whichever is greater
Accuracy - probe	±1 °C or ±1 % of reading whichever is greater
Field of view	Target ratio 30:1
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	9 volt PP3 - 40 hours continuous use
Display	Custom LCD
Dimensions	83 x 95 x 192 mm
Weight	275 grams

RAYTEMP® 38 INFRARED THERMOMETER

- Wide temperature range -59.9 to 999.9 °C
- Target distance/diameter ratio 50:1
- Robust housing for durability
- Auto power-off & backlight functions

The RayTemp 38 is a professional infrared, non-contact thermometer with dual laser dot alignment that incorporates a 50:1 optic ratio (target distance/diameter ratio), this enables users to measure small targets from a distance. The user stands a safe and comfortable distance from the target, points the thermometer at the surface to be measured, pulls the trigger and instantly reads the temperature. Ideal for measuring the surface temperature of any item that is difficult to reach. This enables the user to measure most surfaces accurately and quickly.

Measuring the surface temperature over the range of -59.9 to 999.9 °C with a 0.1 °C/°F resolution, the RayTemp 38 incorporates an auto-power-off facility that turns the instrument off after 60 seconds, this function can be disabled, if required. Each unit incorporates a backlit custom LCD display that indicates both the temperature and the emissivity. The thermometer features a four-button keypad, allowing the user to select the mode required, i.e. max, min, differential and average temperatures, view the max/min high and low alarms and adjust the emissivity from 0.1 to 1.0 in 0.01 increments (default set at 0.95).

- **Two instruments in one**

The RayTemp 38 is two instruments in one as it incorporates a thermocouple socket that will accept a type K thermocouple probe, see pages 77 to 83 for available probes. Each RayTemp 38 is supplied in a protective ABS carrying case. An optional strong magnetic holder is also available. The holder screws into the bottom of the thermometer's housing, allowing the unit to be mounted onto a metal surface for continuous monitoring.



INFRARED



Magnetic holder (814-150)



Order code	Description
814-038	RayTemp 38
814-150	Magnetic holder
The RayTemp 38 is exclusive of probe	

Specification	RayTemp 38
Range - infrared	-59.9 to 999.9 °C
Resolution	0.1 °C/°F
Accuracy - infrared	±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±1 °C or ±1 % of reading whichever is greater
Field of view	Target ratio 50:1
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	2 x 1.5 volt AAA - 180 hours continuous use
Display	Custom LCD
Dimensions	47 x 170 x 240 mm
Weight	395 grams



CALIBRATION EQUIPMENT

Accurate temperature measurements are crucial for ensuring optimal performance, reliable data, and, most importantly, the well-being and safety of individuals.

However, over time, thermometers can experience deviations in accuracy due to factors such as how often they're used and the type of the environment they're used in.

Checking the accuracy of your thermometers can be done yourself using specialised equipment, or it can be sent to a laboratory for professional calibration and certification. Recalibration will need to take place in a laboratory.

CALIBRATION FREQUENCY

In many industries, the general recommendation is to calibrate your thermometers at least once a month. But certain situations may require more frequent calibration, such as high usage or particular regulatory requirements.

However often you calibrate your thermometers, it's essential to record the date and results of every test.

TYPES OF CALIBRATION EQUIPMENT

There are many ways to calibrate thermometers. The different methods available depend on your thermometer type, budget, the quantity and frequency of your thermometer calibration, and how accurate you would like the process to be.

For probes, an ice bath is a great budget method, but for higher accuracy and usage, a dry block calibrator is more reliable.

To calibrate a thermometer with switchable probes, test caps and microcals are quick, economical and reliable.

For infrared and reference thermometers, calibrator cups are a good budget option when used with care. For a more accurate solution that is suitable for checking multiple devices regularly, choose a black body calibrator.

In addition, most users will need a high-accuracy reference thermometer to carry out the processes above.

CERTIFIED RECALIBRATION

If your tests show that your thermometer readings have drifted, you'll need to send them to a laboratory for recalibration. Our in-house UKAS laboratory recalibration offers certification for temperature probes, humidity meters and infrared thermometers at your desired checkpoints.

REFERENCE THERMOMETERS



0601

- 5-point UKAS Certificate of Calibration included
- ± 0.03 °C high system accuracy
- Supplied complete with high accuracy probe
- Ideal for calibration comparison checks

The Reference thermometers are high accuracy PT100 instruments that are supplied with a five-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at various check points: -18, 0, 40, 70 and 100 °C. Special points may be certified by arrangement with our UKAS calibration laboratory.

The Reference thermometers are ideal for comparison checking of the accuracy of other thermometers and probes, when used in conjunction with a stable temperature heat or chill source, see page 101. The instruments measure temperature over the range of -199.99 to 199.99 °C with a resolution of 0.01 °C and an accuracy of ± 0.03 °C.

The units feature a simple on/off push button with open circuit 'Err' and low battery indication, when applicable. The Reference Plus thermometer incorporates the additional features of a max/min and hold function.

The Reference thermometers are supplied with a permanently attached, high accuracy probe incorporating a 1/10th DIN PT100 sensor. The probe measures $\varnothing 3.3 \times 130$ mm and is supplied with a one metre PVC lead.



CALIBRATION EQUIPMENT



Low cost calibration checker

The Comparator (814-132) provides an inexpensive way of checking the temperature of infrared thermometers when used in conjunction with a Reference thermometer.



Order code	Description
222-055	Reference
222-063	Reference Plus
830-221	Protective silicone cover - white
814-132	Comparator

Specification	Reference & Reference Plus
Range	-199.99 to 199.99 °C
Resolution	0.01 °C
Accuracy	± 0.03 °C (-49.99 to 149.99 °C) ± 0.1 °C (-150 to 200 °C)
Battery & life	3 x 1.5 volt AAA - 2000 hours
Sensor type	PT100 1/10 th DIN
Display	10 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	210 grams
UKAS Certificate of Calibration included	



REFERENCE THERMAPEN® THERMOMETER



- High accuracy with 0.01 °C or 0.1 °C resolution
- 5-point UKAS Certificate of Calibration included
- Compact, lightweight and easy-to-use
- Backlight display

The Reference Thermapen thermometer is a high accuracy PT100 instrument that is supplied with a five-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at various check points: -18, 0, 40, 70 and 100 °C.

The Reference Thermapen thermometer is ideal for comparison checking of the accuracy of other thermometers and probes, when used in conjunction with a stable temperature heat or chill source, see opposite. The instrument measures temperature over the range of -69.99 to 199.99 °C, featuring a user selectable resolution of 0.01 or 0.1 °C and an accuracy of ± 0.05 °C.

The thermometer will power-off automatically after ten minutes, maximising battery life. This feature can be disabled if not required. Both low battery (icon) and open circuit indication are displayed, when applicable. Each Reference Thermapen is powered by a single AAA battery with a life expectancy of 500 hours (without backlight).

The Reference Thermapen incorporates a stainless steel, penetration probe ($\varnothing 3.3 \times 108$ mm) that conveniently folds back through 180° into the side of the instrument when not in use.



● NEW ACCESSORIES See page 7 for details



- **Stainless steel wall bracket (832-002)**
Stores the Reference Thermapen safely when not in use. Keyhole slot for hanging (screws not supplied) Measures 27 x 58 x 115 mm

Supplied in a 830-001 zip pouch with belt loop



- **Silicone cover with magnets (830-455)**



Order code	Description
222-215	Reference Thermapen
830-455	Silicone cover with magnets
832-002	S/steel wall bracket
The Thermapen is supplied in a zip pouch (830-001)	

Specification	Reference Thermapen
Range	-69.99 to 199.99 °C
Resolution	0.01 °C or 0.1 °C - user selectable
Accuracy	± 0.05 °C (-30 to 149.99 °C) otherwise ± 0.2 °C
Battery	1 x 1.5 volt AAA
Battery life	500 hours (without backlight)
Sensor type	PT100
Display	9.8 mm LCD
Dimensions	19.3 x 48.2 x 156.2 mm
Weight	115 grams
UKAS Certificate of Calibration included	

3000 SERIES LIGHTWEIGHT DRY-WELL CALIBRATORS

- Ideal for checking thermometer accuracy
- Portable temperature heat source

The 3000 series dry-well calibrators are small and lightweight heat sources, ideal for checking the accuracy of digital thermometers and temperature probes. The units have a temperature range of 33 to 250 °C with a resolution of 0.1 °C.

The dry-wells offer a high level of stability (± 0.5 °C) and a stabilisation time of ten minutes. Plug it in, switch it on, set the verification temperature with the front panel buttons and insert your probe into the correct size well. Compare the temperature reading of your thermometer against the display and the difference is the error.

The 3001 dry-well will accept probe sizes Ø3.3, 4, 4.76 and 6.35 mm. The 3002 dry-well will accept probe sizes Ø3.3, 4.76, 6.35 and 9.6 mm. The 3003 dry-well will accept probe sizes Ø4.76 and 12.7 mm.

Order code	Description
271-301	3001 dry-well
271-302	3002 dry-well
271-303	3003 dry-well



Specification	3000 series dry-wells
Range	33 to 250 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C (33 to 199.9 °C) ± 1 °C (200 to 250 °C)
Heating time	Ambient to 250 °C - min. 10 minutes
Well depth	100 mm
Power	230 volt AC (115 volt available)
Dimensions	57 x 125 x 158 mm
Weight	950 grams
FREE traceable certificate of calibration included	

3101 DRY-WELL HEAT/COOL SOURCE CALIBRATOR

- Ideal for checking the accuracy of thermometers
- Accepts a wide variety of probe diameters

The 3101 dry-well features an easy-to-read LED display with a temperature range of -10 to 110 °C and a resolution of 0.1 °C. Heating time, ambient to 100 °C or cooling time, ambient to 0 °C is ten minutes.

The 3101 is excellent for checking the calibration of a wide range of instrumentation including digital thermometers and temperature probes, either above or below ambient temperature. The unit incorporates two removable wells/inserts, both Ø13 mm in diameter and will accept probe sizes Ø3.3, 4.1, 4.8, 6.4 and 9.6 mm.

Each 3101 is supplied with two inserts of the customer's choice.

Order code	Description
271-401	3101 dry-well
271-321	Ø3.3 mm ID brass insert
271-322	Ø4.1 mm ID brass insert
271-323	Ø4.8 mm ID brass insert
271-324	Ø6.4 mm ID brass insert
271-325	Ø9.6 mm ID brass insert



Specification	3101 dry-well
Range	-10 to 110 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C (-10 to 99.9 °C) ± 1 °C (100 to 110 °C)
Heating time	Ambient to 100 °C - min. 10 minutes
Cooling time	Ambient to 0 °C - 10 minutes
Well depth	100 mm
Power	12 to 24 volt DC*
Dimensions	110 x 153 x 186 mm
Weight	1.8 kilograms
*Supplied with 230/115 volt AC power adaptor FREE traceable certificate of calibration included	

IR-500 BLACK BODY CALIBRATOR

- Ideal for checking the accuracy of infrared thermometers
- Wide temperature range 50 to 500 °C

The IR-500 Black Body Calibrator is a stable heat source for checking the calibration of infrared digital thermometers that require regular temperature calibration checks or validation. The unit features an easy to read LED display, and controls the black body surface temperature over the range of 50 to 500 °C. It reaches an upper temperature of 500 °C in about 40 minutes.

Simply set the verification temperature on the digital display of the IR-500 Calibrator, allow time to stabilise and then point your infrared thermometer at the Ø58 mm black body. Compare the temperature readings on the IR-500 Calibrator display and the infrared thermometer under test, and the difference is the error. The isothermal Ø58 mm black body target is manufactured to an emissivity of approximately 0.95, which is ideal for most industrial infrared thermometers.

For increased accuracy checks, use a Reference thermometer (see page 99 for more details), insert the fixed Ø3.3 mm precision PT100 probe into the pre drilled calibration well. UK power lead included.

Order code Description

822-400 IR-500 Black Body Calibrator



LED Display

Specification	IR-500 Black Body Calibrator
Range	50 to 500 °C
Resolution	0.1 °C/ °F
Accuracy	±1 °C below 100 °C ±2 °C from 100 to 200 °C ±3 °C from 200 to 500 °C
Heating time	40 minutes to max
Cooling time	30 minutes max to 100 °C
Emissivity	0.95
Target size	Ø58 mm
Power	110 volt AC, 3A or 230 volt AC (±10%), 1.5A
Dimensions	114 x 180 x 233 mm
Weight	2.682 kilograms
FREE traceable certificate of calibration included	

*It is possible to achieve a higher level of accuracy, better than ±0.5 °C if the IR-500 Calibrator is used in conjunction with a certified Reference Thermometer (see page 99 for details).

CALIBRATION WATER BATH

- Ideal for checking the accuracy of probe thermometers
- Temperature range 25 to 95 °C

The Calibration Water Bath offers a compact, accurate and reliable system which can be used for the temperature calibration of thermometers and temperature probes using the comparison method. The bath operates over the range 25 °C to 95 °C with a temperature accuracy of ±1 °C (25 to 70 °C) * and stability of ±0.1 °C with a bath uniformity of ±0.1 °C when measured from centre to any corner.

The water bath features a user friendly LED display, with minimal setup required. The stainless steel bath capacity is 5 litres, and incorporates a variable flow/speed pump of 0 to 20 litres per minute. For increased accuracy checks, it is recommended that a Reference thermometer is used as a calibration reference. (See page 99 for more details).

For continuous use in the temperature range 25 to 60 °C we recommend the bath be filled with distilled water, between 60 to 80 °C 15% glycerine water solution and between 80 to 95 °C a suitable silicone oil.

Each bath is supplied complete with lid, drain tap and carry handles. UK power lead included.

Order code Description

822-950 Calibration Water Bath



Specification	Calibration Water Bath
Range	25 to 95 °C
Resolution	0.1 °C/ °F
Accuracy	±1 °C (+25 to 70 °C) *
Bath capacity	5 litres
Pump flow/speed	0 to 20 litres per minute
Bath stability	±0.1 °C over a 45 minute period
Bath uniformity	±0.1 °C when measured from centre to any corner
Power	230 volt AC (±10%) 1.5A
Internal dimensions	130 x 130 x 260 mm
External dimensions	318 x 380 x 445 mm
Weight	12 kilograms

*It is possible to achieve a higher level of accuracy, better than ±0.2 °C if the calibration bath is used in conjunction with a certified Reference Thermometer (see page 99 for details).

MICROCAL SIMULATORS

- Test thermocouple type K, J, T, R, N, S & E thermometers
- For frequent checking of thermometer accuracies
- 12 adjustable or 23 fixed temperature points
- 4 models available – Simulator or Simulator/thermometer

The MicroCal thermocouple simulators help ensure that the frequent checking of thermometer accuracies are a routine operation. These instruments are designed to simulate a chosen temperature to test thermocouple thermometers without the need for specialised equipment or conversion tables. The MicroCal 1 Plus also measures and simulates temperature.

The MicroCal 1, MicroCal 1 Plus & the MicroCal 2 have 12 preset temperatures for type K thermocouple -20, -10, 0, 10, 30, 50, 100, 195, 250, 500, 800 and 1000 °C, any of these temperatures can be modified and saved by the user. The factory default temperatures can be recalled at any time.

The MicroCal 3 has 23 fixed temperature points for type K thermocouple -100, -50, -20, -10, 0, 10, 20, 30, 40, 50, 60, 80, 100, 150, 195, 250, 300, 400, 500, 600, 800, 1000 and 1200 °C.

All models feature a custom 10 mm LCD display with alpha-numeric display line to prompt the user when changing parameters. Selectable parameters include; °C/°F, auto-power-off - enable/disable, CJC - internal/external and display contrast adjustment.

Each MicroCal is supplied with a one metre PVC thermocouple lead with miniature thermocouple connectors and a five-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at the various points.

An optional lead set is available for the MicroCal 1 and MicroCal 1 Plus comprising of six leads, one for each thermocouple type K, J, T, R/S, N and E.



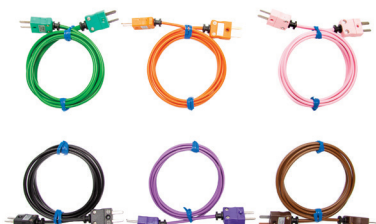
Thermocouple type K	Range -200 to 1372 °C
Thermocouple type J	Range -200 to 1200 °C
Thermocouple type T	Range -270 to 400 °C
Thermocouple type R	Range 0 to 1768 °C
Thermocouple type N	Range -200 to 1300 °C
Thermocouple type S	Range 0 to 1768 °C
Thermocouple type E	Range -140 to 1000 °C



Incorporates a foot stand



Lead Set (6 leads)
816-100



Order code	Description
271-100	MicroCal 1
271-101	MicroCal 1 Plus
271-200	MicroCal 2 - type K
271-210	MicroCal 3 - type K
816-100	Lead set (6 leads)
830-205	Protective silicone cover
832-115	Acrylic wall bracket



0601



Specification	MicroCal 1 & 1 Plus	MicroCal 2	MicroCal 3
Range	(see table above)		
Temp points	12 adjustable presets	12 available	23 fixed presets
Accuracy	±0.3 °C (dependant upon tc type)	±0.3 °C	±0.5 °C
Battery	2 x 1.5 volt AAA		
Battery life	300 hours		
Sensor type	Thermocouple type K, J, T, R, N, S & E (selectable)	Dedicated type K thermocouple	
Display	Custom LCD		
Dimensions	35 x 73 x 141 mm		
Weight	175 grams		
5-point UKAS Certificate of Calibration included			

For more information on the above simulators please visit our website or contact our sales office.



MICROCHECK 3-POINT CHECKER/SIMULATOR

- For regular checking of thermometer accuracies
- 3-point UKAS Certificate of Calibration
- Simple & easy-to-use
- 4 models available

The MicroCheck temperature checkers have been developed to verify the continuing accuracy of type K thermocouple thermometers with a 0.1 or 1 °C resolution.

All checkers feature a custom 10 mm LCD display with alpha-numeric display line to prompt the user when changing parameters. Selectable parameters include: °C/°F, auto-power-off - enable/disable, CJC - internal/external and display contrast adjustment.

The MicroChecks simulate three fixed temperatures, enabling users to check the accuracy of each instrument at three known points without the need for specialist equipment.

Each MicroCheck is supplied with a one metre PVC type K thermocouple lead with miniature connectors and a three-point UKAS Certificate of Calibration. Each certificate indicates deviations from standards at the various points.



Acrylic wall bracket (832-115)



Protective silicone cover (830-205)



Specification	Range
MicroCheck 1	0 °C, 100 °C & 500 °C
MicroCheck 2	-20 °C, 20 °C & 200 °C
MicroCheck 3	-20 °C, 0 °C & 220 °C
MicroCheck 4	-20 °C, 0 °C & 100 °C

A 3-point UKAS Certificate of Calibration is included with each MicroCheck checker



0601

Order code	Description
271-011	MicroCheck 1
271-012	MicroCheck 2
271-014	MicroCheck 3
271-015	MicroCheck 4
830-205	Protective silicone cover
832-115	Acrylic wall bracket

Specification	MicroCheck
Range	(see table above)
Temp points	3 fixed temperatures
Accuracy	±0.5 °C
Battery	2 x 1.5 volt AAA
Battery life	300 hours
Sensor type	type K thermocouple
Display	Custom LCD
Dimensions	35 x 73 x 141 mm
Weight	175 grams
UKAS Certificate of Calibration included	



CALIBRATION THERMISTOR TEST CAPS

- Provides assurance that thermometer readings are accurate
- Supplied with a UKAS Certificate of Calibration



These thermistor test caps are suitable for checking the accuracy of the Therna 20, Therna 22 or any equivalent thermistor thermometer.

Simply plug in the desired test cap and the display on the thermometer should show the same temperature as the certified value.

Each test cap is supplied with a UKAS Certificate of Calibration with a guaranteed uncertainty of $\pm 0.1^\circ\text{C}$.



Order code	Description
286-001	Thermistor test cap -18 °C
286-002	Thermistor test cap 0 °C
286-003	Thermistor test cap 3 °C
286-004	Thermistor test cap 70 °C
286-005	Thermistor test cap 100 °C

UKAS Certificate of Calibration included

CALIBRATION PT100 TEST CAPS

- Validates the accuracy of PT100 thermometers
- Supplied with a UKAS Certificate of Calibration



These PT100 test caps are suitable for checking the accuracy of the Precision PT100 thermometer or any platinum resistance thermometer fitted with a Binder connector.

Simply plug in the test cap and the display on the thermometer should show the same temperature as the certified value.

Each test cap is supplied with a UKAS Certificate of Calibration with a guaranteed uncertainty of $\pm 0.1^\circ\text{C}$.



Order code	Description
282-001	PT100 test cap -18 °C
282-002	PT100 test cap 0 °C
282-003	PT100 test cap 3 °C
282-004	PT100 test cap 70 °C
282-005	PT100 test cap 100 °C

UKAS Certificate of Calibration included

UKAS CALIBRATION, SERVICE & REPAIR



0601

Regular thermometer calibration promotes safety, quality control and helps prevent potential issues that may arise from inaccurate temperature measurements.

UKAS is the National Accreditation Body for the United Kingdom. When UKAS accredits a laboratory, its tests are completed to the highest standard in the country.

At ETI, we have a calibration laboratory for temperature and humidity measurements, which is accredited to UKAS ISO/IEC 17025 standards. Customers can send the following instruments to us for UKAS calibration:

- Thermometers and probes
- Temperature data loggers
- Humidity meters and loggers
- Test caps

CALIBRATION VS CERTIFICATION

A calibration test compares your thermometer measurements with a traceable device or reference thermometer. The test is carried out using a known temperature source, such as ice water at 0 °C. A calibration certificate shows the results of the test and certifies the accuracy of the instrument.

HOW OFTEN TO CALIBRATE THERMOMETERS

How often you check your thermometer accuracy depends on several factors, including industry standards, regulatory requirements, and frequency of use.

In many industries, including food service, the general recommendation is to check them at least once a month. You can do this yourself using calibration equipment, such as ice baths.

It's recommended to send your thermometer to a laboratory for certification every 12 months. Keeping a calibration record is essential for demonstrating compliance with regulatory requirements.

CALIBRATION POINTS

Calibration points are the temperatures at which the thermometer has been calibrated to. The number of checkpoints you opt for depends on your requirements, and we can complete as many as you need.

A common number of checkpoints to choose from is 3 or 5. It's customary to choose a 5-point certificate for thermometers where high accuracy is critical. The more checkpoints there are, the more confident you can be that your thermometer is accurate across a range of temperatures.

UKAS TEMPERATURE CALIBRATION

- Thermometer temperature range -100 to 250 °C
- Rapid turnaround
- Certified uncertainties (CMCs) from ± 0.027 °C
- Custom points available



0601

Our in-house UKAS accredited calibration laboratory for temperature has a wide measurement range of -100 to 250 °C with a calibration and measurement capability of ± 0.027 °C. The laboratory can also measure resistance up to 1 M Ω (i.e. resistance decade boxes and PT100/RTD temperature simulators) and DC voltage 0 to 100 mV (i.e. thermocouple simulators and calibrators). Original UKAS Certificates provide proof that instruments and probes have been calibrated against nationally approved standards.



● Thermometers & Probes

Each UKAS Certificate indicates the deviations from standards at various check points, the standard being -18, 0, 40, 70 and 100 °C with a guaranteed uncertainty, dependant on the probe type. See calibration and measurement capability table below.

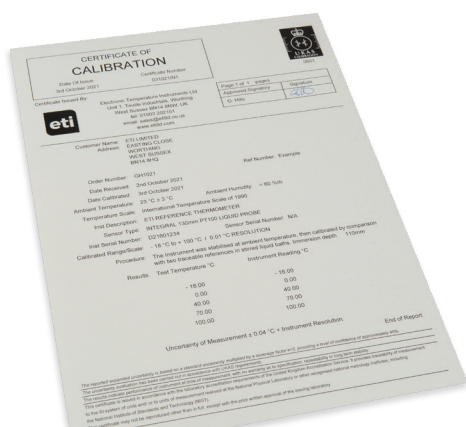
● Test Caps & Simulators

Each UKAS Certificate indicates the deviations from standards at specific check points (-18, 0, 3, 70 and 100 °C) to an uncertainty of ± 0.1 °C (resistance) or ± 0.15 °C (thermocouple).

● Data loggers

Each UKAS Certificate indicates the deviations from standards at three check points (-18, 0 and 40 °C) to an uncertainty of ± 0.06 °C.

UKAS CALIBRATION



CALIBRATION & MEASUREMENT CAPABILITY (CMC)

Thermistor thermometer & probe

-50 to 150 °C CMC ± 0.06 °C

PT100 (resistance sensors) thermometer & probe

-80 to 250 °C CMC ± 0.06 °C

-100 to -80 °C CMC 0.13 °C

Thermocouple thermometer & probe

-80 to 250 °C CMC 0.15 °C

-100 to -80 °C CMC ± 0.19 °C

Temperature data loggers

-50 to 100 °C CMC ± 0.06 °C

Thermistor & PT100 test caps

-18 to 100 °C CMC 0.1 °C

Thermocouple simulators

-200 to -50 °C CMC ± 0.42 °C

-50 to 1372 °C CMC 0.15 °C

Order code UKAS Certificate - Temperature

890-200-5	Instrument only standard 5-point
890-210-5	Instrument & probe system 5-point
890-215	Checker 3-point
890-230	Test cap 1-point
890-235	Simulator 5-point
890-240-3	Data logger 3-point

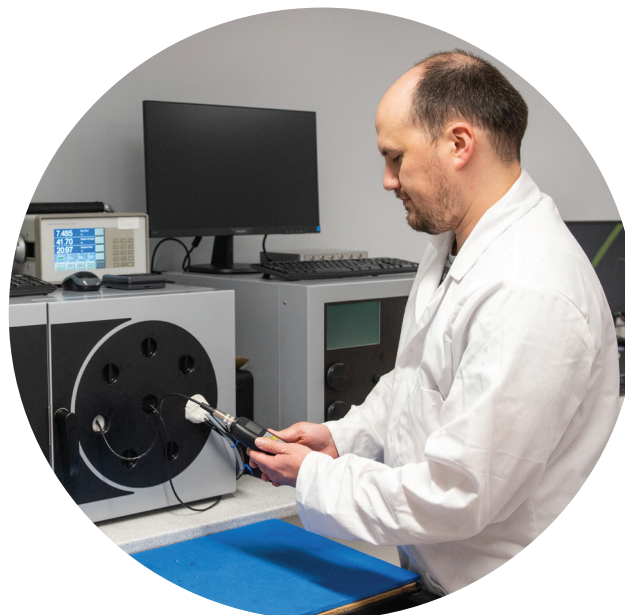
UKAS HUMIDITY CALIBRATION

- Certified uncertainties (CMCs) from 0.3 %rh, 0.18 °Cdp & 0.18 °C Air
- Flexible certification - select the points you need
- Qualified & experienced laboratory personnel
- Rapid turnaround



0601

Our in-house humidity laboratory is equipped with two of the world's premier state-of-the-art HYGROGEN2 - HG2-XL humidity chambers which generate stable temperatures and humidity conditions in rapid time. These methods of generation are a fundamental technology, enabling confidence in traceability to National Standards. This, combined with MBW referenced mirror hygrometers, ensures the standard of calibration is to a very high level. If you then combine this with UKAS Accreditation, and a rapid turnaround of your instrument, you can be sure that the service offered by our humidity laboratory will meet your requirement.



Accurate monitoring of humidity can increase the efficiency of productivity in many aspects of production. An increasing number of employers are also realising the importance of healthy working environments, which includes the control of humidity to help prevent airborne bacteria, eliminate static shocks and reduce eye-strain.

As with most digital equipment, but even more so with hygrometers, there is a tendency for drift over a period of use. Therefore a regular calibration by comparison against Standards, traceable to National Standards, provides confidence in the continued accuracy of your instrument.

● Air temperature capability

Our humidity laboratory is also UKAS accredited for air temperature measurement certification. Please see below for calibration and measurement capability (CMC).

CALIBRATION & MEASUREMENT CAPABILITY (CMC)

Humidity

10 to 90 %rh @ 0 to 60 °C CMC 2 %rh

10 to 90 %rh @ 20 to 25 °C CMC 0.3 to 1.1 %rh

Air temperature

0 to 60 °C CMC 0.24 °C



Order code UKAS Certificate - Humidity

890-110 3-point 25, 50 & 75 %rh

890-112 1-point customer specified

890-114 5-point customer specified

Order code UKAS Certificate - Air Temperature

890-120 2-point 10 & 40 °C

890-132 1-point customer specified

890-134 Additional specified point

Alternative temperature points can be offered to customer requirements, please contact our After-sales team for further details.

SERVICE & REPAIR OF THERMOMETERS & PROBES

- Additional one year's guarantee on repaired instruments
- Thermometer, probe & recalibration service available
- Rapid turnaround
- Qualified & experienced technicians

One of the true advantages of being a manufacturer is that we know how our instruments work and how to repair them. We are fully committed to supporting our customers, no matter which instrument they have chosen. Our service department is equipped with the best of resources and all repairs are undertaken in-house to give an unrivalled after-sales-service.

The vast majority of instruments that are damaged through use in busy commercial environments can be repaired. Naturally, if the instrument is outside the warranty period, there is a charge. But we wish to make customers aware that it can be cost-effective to repair an instrument, rather than throw it away and buy a new one.



Whilst an annual calibration check is all you may need for continued confidence in your instrument, there are times when you may wish for the added assurance of a full service, which includes a recalibration and the added benefit of a further one year's guarantee.

Instruments for service or repair should be sent to your local distributor or direct to ETI, following our online returns form on our website. You will then receive a confirmation email with a unique case number and details of how to return your instrument to us.

Contact our after-sales team for advice on any non-ETI units you wish to have repaired or calibrated. The prices quoted in our price list below are a guide, for a more comprehensive price structure, please contact our after-sales team.

Order code	Description - Repair
890-103	Thermapen ONE thermometers
890-254	Waterproof thermometers
890-257	Therma Series probe thermometer
890-295	ThermaData loggers
890-303	Thermapen Classic thermometers
890-310	Therma series thermometers
890-318	CaterTemp Metal thermometer
890-319	Therma Metal thermometer
890-403	Thermapen IR thermometers
890-500	TempTest thermometers
890-570	BlueTherm thermometers
890-670	RayTemp infrared thermometers
890-690	ThermaData WiFi loggers
890-700	Reference Thermometer
890-800	8000/8100 pH Meters
890-850	8100 Plus pH Meter

Order code	Description - Recalibration
894-254	Waterproof thermometers
894-257	Therma series probe thermometer
894-303	Thermapen thermometers*
894-310	Therma series thermometers
894-318	CaterTemp Metal thermometer
894-319	Therma Metal thermometer
894-331	MicroTherma thermometers
894-500	TempTest thermometers
*excludes Thermapen IR	

Order code	Description - Probe repair
890-400	Thermocouple probe
890-410	Thermistor probe
890-420	PT100 probe

HUMIDITY METERS



Monitoring climate conditions is important for many industries, for both the comfort of their staff and clientele, storing goods and carrying out processes. Keeping track of humidity makes it easy to see when adjustments need to be made to prevent discomfort and damage.

THE IMPORTANCE OF HUMIDITY

High or low humidity inside buildings can damage human health and the storage of goods such as wooden construction materials, food products, pharmaceuticals, fuels, paper, and electronic components.

High humidity (above 70 %rh) causes dampness and condensation, leading to mould and dust mites. Humidity levels below 25 %rh can cause respiratory discomfort.

Using a hygrometer for regular monitoring helps to maintain a healthy humidity level. This can be done by opening windows, adjusting heating settings or using humidifiers and dehumidifiers.

MEASURING HUMIDITY

Humidity is the level of water vapour or moisture in the air. Humidity is usually measured using relative humidity, also known as %rh. It is measured on a scale of 0 to 100 %rh.

100% refers to the maximum amount of water that can be present in the air at the current temperature. So if a hygrometer measures 50 %rh, the air currently contains 50% of the maximum amount of water it could contain.

DEW POINT

Some hygrometers also measure dew point. This is the temperature at which water vapour will turn into a liquid form, whether this is condensation, fog, rain or snow. It is calculated using the %rh. The dew point is a good indicator of how muggy the atmosphere will feel.

HUMIDITY CALIBRATION

The best way to check hygrometer accuracy is by sending it to an accredited humidity laboratory for testing. At ETI we have a UKAS calibration laboratory for temperature and humidity, which is accredited to UKAS ISO/IEC 17025. Please see pages 107 and 108 for more information.

6000 SERIES THERMA-HYGROMETERS

- High accuracy $\pm 2\% \text{rh}$ & $\pm 1^\circ \text{C}$
- Remote or integral $\% \text{rh}$ & temperature probe
- Displays max/min humidity or temperature
- Dew point indication

The 6000 series therma-hygrometers are easy-to-use, relative humidity and air temperature measuring instruments. The units measure $\% \text{rh}$ over the range of 0 to 100 $\% \text{rh}$ with a resolution of 0.1 $\% \text{rh}$ and temperature over the range of -20 to 70 $^\circ \text{C}$ (-20 to 50 $^\circ \text{C}$ with a fixed probe) with a resolution of 0.1 $^\circ \text{C}$.

The therma-hygrometers incorporate a custom LCD, displaying $\% \text{rh}$, $^\circ \text{C}/^\circ \text{F}$, dew point indication, max/min and hold. There is an automatic display of both open circuit and low battery. The 6000/6100 display the temperature and humidity at the push of a button separately, whereas the 6002/6102 display humidity and temperature simultaneously and additionally incorporates a backlit display.

All units are powered by three AAA batteries with a minimum life expectancy of 10,000 hours. An auto-power-off facility turns the therma-hygrometer off automatically after ten minutes, maximising battery life.

- **6100/6102 therma-hygrometers with remote probe**
The 6000 series hygrometer has an integral humidity and temperature sensor. The 6100 has a wired humidity and temperature sensor. If you select the 02 version, you will see both temperature and humidity simultaneously on the LCD display.
- **Optional UKAS Certificate of Calibration**
An optional three-point UKAS Humidity Calibration Certificate is available at preferential price when purchased with these units.



HUMIDITY



Sintered brass nickel plated probe (224-618)
This product prevents dust from reaching the sensor, reducing contamination. It is suitable for use in harsh environments.



Order code	Description
224-600	6000 therma-hygrometer
224-610	6100 therma-hygrometer
224-602	6002 therma-hygrometer
224-612	6102 therma-hygrometer
224-618	Sintered probe for 6100/6102
224-617	6100/6102 spare probe**
830-227	Protective silicone cover - black
890-111	*UKAS 3-point Certificate
6100/6102 are supplied inclusive of probe	
*Price when purchased with a new instrument	

Specification	Temperature	Humidity
Range - 6000/6002	-20 to 50 °C	0 to 100 %rh
Range - 6100/6102	-20 to 70 °C	0 to 100 %rh
Resolution	0.1 °C/°F	0.1 %rh
Accuracy	±1 °C ±1 digit*	±2 %rh (10 to 90 %rh)
Hysteresis	N/A	±1 %rh
Sensor type	Silicon bandgap	Capacitance polymer
Battery & life	3 x 1.5 volt AAA - 10,000 hours	
Display	12 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	130/160 grams	
*Accuracy ±0.4 °C over the range 10 to 40 °C otherwise ±1 °C		

6500 THERMA-HYGROMETER

- Dew point calculation, max/min & hold functions
- Remote %rh & temperature probe

The 6500 therma-hygrometer measures both relative humidity and air temperature. The clear, easy-to-read LCD displays %rh over the range of 0 to 100 %rh with a resolution of 0.1 %rh and temperature over the range of -20 to 70 °C with a resolution of 0.1 °C/°F.

The unit incorporates a custom LCD with %rh, °C/°F, dew point indication, max/min and hold. An auto-power-off facility turns the therma-hygrometer off automatically after ten minutes, maximising battery life.

The 6500 therma-hygrometer incorporates four, easy-to-use, push buttons allowing the user to select on/off, hold, max/min and mode functions. Each unit is supplied with a remote sensor and integral PVC lead.

Order code Description

224-655	6500 therma-hygrometer
830-227	Protective silicone cover - black
890-111	*UKAS 3-point Certificate

*Price when purchased with a new instrument



Specification	Temperature	Humidity
Range	-20 to 70 °C	0 to 100 %rh
Resolution	0.1 °C/°F	0.1 %rh
Accuracy	±1 °C ±1 digit*	±3 %rh (20 to 80 %rh)
Hysteresis	N/A	±1 %rh
Sensor type	Silicon bandgap	Capacitance polymer
Battery & life	3 x 1.5 volt AAA - 10,000 hours	
Display	12 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	185 grams	

*Accuracy ±1 °C over the range 5 to 45 °C otherwise ±1.7 °C

POCKET HYGROMETER

- Max/min memory function
- Displays both humidity & temperature

The pocket hygrometer incorporates a large, clear LCD that simultaneously displays both humidity and temperature over the range of 20 to 95 %rh and 0 to 49.9 °C.

This pen-shaped hygrometer is ideal for monitoring the humidity and temperature in a wide range of applications. This versatile unit incorporates a max/min button which allows the user to display the maximum and minimum humidity and temperature simultaneously.

Unlike many hygrometers that are large and heavy to carry around, this compact hygrometer is truly pocket-sized and convenient to use.

The unit is housed in a slim, pen-shaped, ABS case measuring 20 x 23 x 130 mm and incorporates a pocket clip.

Order code Description

810-190	Pen-shaped pocket hygrometer
---------	------------------------------



Specification	Temperature	Humidity
Range	0 to 49.9 °C	20 to 95 %rh
Resolution	0.1 °C	1 %rh
Accuracy	±1 °C	±5 %rh
Sensor type	Silicon bandgap	Capacitance
Battery & life	3 volt CR2032 lithium coin cell - 15,000 hours	
Display	Custom LCD	
Dimensions	20 x 23 x 130 mm	
Weight	31 grams	

THERMA-HYGROMETER - COMFORT

- Save on energy bills
- Helps maintain a healthy living & work environment

These therma-hygrometers display both the humidity and temperature in addition to indicating and recording the maximum and minimum readings. Each unit features an analogue arrow indicator and a colour-coded bar to display either humidity comfort levels e.g. dry, comfort and wet (810-130) or temperature comfort levels e.g. cold, comfort and hot (810-135).

These therma-hygrometers are ideal for monitoring both temperature and humidity in rooms, offices, factories and similar to ensure optimum environmental conditions are maintained.

Each unit is housed in an ABS case, measuring 20 x 100 x 110 mm, that incorporates a useful foldaway stand and a keyhole slot for hanging on a wall.

Order code	Description
810-130	Therma-hygrometer
810-135	Comfort thermometer



Specification	Temperature	Humidity
Range	0 to 50 °C	10 to 99 %rh
Resolution	0.1 °C/°F	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 70 %rh)
Battery & life	2 x 1.5 volt AAA - 10,000 hours	
Display	Dual custom LCD	
Dimensions	20 x 100 x 110 mm	
Weight	142 grams	

THERMA-HYGROMETER - ALARM

- Integral %rh & remote temperature probe
- Large LCD with max/min & alarm functions

This therma-hygrometer simultaneously displays both the humidity and temperature in addition to indicating and recording the maximum and minimum readings.

The instrument measures both humidity and temperature over the range of 0 to 49.9 °C and 20 to 99 %rh via the internal sensors. Using the external temperature sensor the temperature range is extended to -49.9 to 69.9 °C.

The unit features a temperature alert alarm that will sound when the external remote temperature probe indicates the temperature is 0 °C or below. This feature is ideal for frost/freeze alert in horticulture and similar.

The unit is housed in an ABS case, measuring 20 x 65 x 97 mm, that incorporates a useful foldaway stand and a keyhole slot for hanging on a wall.

Order code	Description
810-155	Therma-hygrometer - alarm
810-158	Replacement probe for 810-155



Remote probe



Specification	Temperature	Humidity
Range - internal	0 to 49.9 °C	20 to 99 %rh
Range - external	-49.9 to 69.9 °C	N/A
Resolution	0.1 °C/°F	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 80 %rh)
Sensor type	Thermistor	Capacitance
Battery & life	1.5 volt AAA - 10,000 hours	
Display	Dual custom LCD	
Dimensions	20 x 65 x 97 mm	
Weight	70 grams	

THERMA-HYGROMETER

- Max/min temperature & humidity function
- Integral %rh & temperature sensor

This therma-hygrometer simultaneously displays both the humidity and temperature in addition to indicating and recording the maximum and minimum temperature and humidity readings.

The hygrometer measures both humidity and temperature over the range of 0 to 50 °C and 10 to 99 %rh utilising the internal sensors. A comfort icon is displayed to show if the surrounding atmosphere is dry, just right or too wet.

This therma-hygrometer is ideal for monitoring both temperature and humidity in rooms, offices, factories and similar to ensure optimum environmental conditions are maintained.

The unit is housed in an ABS case, measuring 20 x 100 x 110 mm, that incorporates a useful foldaway stand and a keyhole slot for hanging on a wall.

Order code	Description
810-145	Therma-hygrometer



IMPROVED
DESIGN

MAX/
MIN

Specification	Temperature	Humidity
Range	0 to 50 °C	10 to 99 %rh
Resolution	0.1 °C/°F	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 70 %rh)
Battery & life	1.5 volt AAA - 10,000 hours	
Display	Dual custom LCD	
Dimensions	20 x 100 x 110 mm	
Weight	135 grams	

THERMA-HYGROMETER - PANEL MOUNTING

- Displays both humidity & temperature
- Easy panel-mounting installation

This panel-mounted therma-hygrometer simultaneously displays both humidity over the range of 20 to 99 %rh and temperature over the range of 0 to 49.9 °C with a resolution of 1 %rh and 0.1 °C. This instrument is ideal for OEMs for installing into equipment, i.e. vivariums, incubators and similar.

The therma-hygrometer is easily installed into a panel via a mounting hole with a minimum Ø33 mm cut-out. The unit incorporates a screw clamp with a maximum panel thickness of 7 mm.

The therma-hygrometer features a max/min memory function for both temperature and humidity. The unit is powered by a CR2032 coin cell battery with a life expectancy of 5,000 hours continuous use.

Order code	Description
810-180	Therma-hygrometer - panel



Panel-mounting

MAX/
MIN

Specification	Temperature	Humidity
Range	0 to 49.9 °C	20 to 99 %rh
Resolution	0.1 °C	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 80 %rh)
Sensor type	Thermistor	Capacitance
Battery & life	3 volt CR2032 lithium coin cell - 5,000 hours	
Display	Dual custom LCD	
Dimensions	Ø50 x 41 mm	
Weight	42 grams	

THERMA-HYGROMETER - WITH PROBE

- Save on energy bills
- Integral sensor & remote probe

The therma-hygrometer simultaneously displays both the humidity and temperature in addition to indicating and recording the maximum and minimum readings.

Using the external remote probe with integrated three metre lead the unit measures both temperature and humidity over the range of -20 to 70 °C and 10 to 99 %rh. Alternatively using the internal sensor the unit measures temperature over the range of 0 to 50 °C.

This therma-hygrometer is ideal for monitoring both temperature and humidity in rooms, offices, factories and similar to ensure optimum environmental conditions are maintained.

The unit is housed in an ABS case, measuring 20 x 100 x 110 mm, that incorporates a useful foldaway stand and a keyhole slot for hanging on a wall.

Order code	Description
810-140	Therma-hygrometer - with probe

IMPROVED DESIGN

Remote probe

Specification	Temperature	Humidity
Range - internal	0 to 50 °C	N/A
Range - external	-20 to 70 °C	10 to 99 %rh
Resolution	0.1 °C/°F	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 70 %rh)
Battery & life	1.5 volt AAA - 10,000 hours	
Display	Dual custom LCD	
Dimensions	20 x 100 x 110 mm	
Weight	170 grams	

MAX/
MIN

THERMA-HYGROMETER - WITH PROBE

- Remote %rh & remote temperature probe
- Frost/freeze audible alarm feature

This therma-hygrometer simultaneously displays both the humidity and temperature in addition to indicating and recording the maximum and minimum readings.

Utilising the internal sensor the instrument measures temperature over the range of 0 to 49.9 °C. The external remote probe with integrated three metre lead measures both temperature and humidity over the range of -49.9 to 69.9 °C and 20 to 98 %rh.

The unit features a temperature alert alarm that will sound when the external remote probe indicates the temperature is 0 °C or below. This feature is ideal for frost/freeze alert in horticulture and similar.

The therma-hygrometer is housed in an ABS case measuring 18 x 41 x 76 mm, that incorporates a foldaway stand. Each unit is supplied with a probe wall bracket.

Order code	Description
810-195	Therma-hygrometer - with probe



Specification	Temperature	Humidity
Range - internal	0 to 49.9 °C	N/A
Range - external	-49.9 to 69.9 °C	20 to 98 %rh
Resolution	0.1 °C/°F	1 %rh
Accuracy	±1 °C	±5 %rh (30 to 80 %rh)
Sensor type	Thermistor	Capacitance
Battery & life	1.5 volt AAA - 10,000 hours	
Display	Dual custom LCD	
Dimensions	18 x 41 x 76 mm	
Weight	90 grams	



MOISTURE METERS FOR MEASURING DAMP

Moisture meters, otherwise known as damp testers, are important tools for professionals responsible for construction, building maintenance and surveying.

Common applications include assessing whether materials are fit for use and whether a building has been damaged by the presence of moisture. In addition, they can help with monitoring processes such as restoration.

The presence of moisture can be difficult to detect without a damp tester, as there can be no visible signs, and some damp materials can even feel dry to the touch. However, an invisible damp problem can lead to serious and costly issues later on, such as mould growth and rot.

Common reasons for moisture in building materials include:

- Leaks in the building envelope
- Releases from plumbing or HVAC systems
- Humid air condensing on surfaces
- Extensive periods of humid weather
- A lack of ventilation

PIN-TYPE MOISTURE METERS

Moisture meters tend to come in two main types: pin-type and pinless. Pin-type meters create holes in materials, so they might not be the best choice

for applications like fine furniture. However, they are generally a more accurate method of testing than pinless meters.

Our range of cost-effective pin-type moisture meters is designed for the accurate monitoring of a wide range of materials.

When the pins are inserted into a damp material, they produce an electrical current which determines the quantity of moisture present. This is displayed on the meter as a percentage.

The colour-coded damp indicator also shows whether the material has a good, cautionary or high level of moisture.

Our moisture meters read in five scales:

Wood 1	6.0 to 40.0 %
Wood 2	8.0 to 40.0 %
Plaster	0.1 to 15.0 %
Concrete	0.5 to 12.0 %
Linear or Reference	0 to 1000

When measuring materials for damp, be sure to consider other factors that could impact the reading - such as the material's density and ability to absorb moisture, and the conditions of the surrounding environment.

7250 MOISTURE METER

- 20-LED bar graph displays moisture levels for quick diagnosis
- Specifically designed for the building professional
- 5 scales - concrete, plaster, reference & 2 timber
- Compact & robust design

The 7250 is a compact, general purpose moisture meter designed specifically for building professionals and tradesmen to check the moisture content in a variety of construction materials. The moisture meter features a 20-LED bar graph within the keypad which displays current moisture levels; green for OK, amber for WARNING or red for DAMP. The digital meter incorporates five scales of measurement.

Scale 1 - Wood 1 (W1)	6.0 to 40.0 %
Scale 2 - Wood 2 (W2)	8.0 to 40.0 %
Scale 3 - Plaster (P1)	0.1 to 15.0 %
Scale 4 - Concrete (C1)	0.5 to 12.0 %
Scale 5 - Linear or Reference (Lin)	0 to 1000

The unit is housed in a robust ABS case and is powered by three AAA batteries that give a minimum of 350 hours of battery life. The instrument will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.

Each meter incorporates two Ø1.2 x 7 mm pointed, replaceable pins and is supplied in a zip wallet complete with 50 spare pins (602-530). The 7250 moisture meter is an essential tool for flooring surveyors and building and construction engineers.

LED MOISTURE INDICATION BAR GRAPH:



- **Protective silicone cover**
Fitting a cover will make your instrument splashproof to IP64 and help prevent against accidental damage. Various colours are available - see page 14.



Order code	Description
224-075	7250 moisture meter
830-222	Protective silicone cover - yellow
832-222	s/steel wall bracket & cover
890-270	3-point traceable calibration cert
602-530	Spare pins - pack of 50



MOISTURE



Specification	7250 moisture meter
Range	Scale 1 6.0 to 40.0 % Scale 2 8.0 to 40.0 % Scale 3 0.1 to 15.0 % Scale 4 0.5 to 12.0 % Scale 5 0 to 1000
Resolution	0.1 % or 1 (Linear Scale)
Accuracy	±1 % moisture content
Battery & life	3 x 1.5 volt AAA - 350 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

7000 MOISTURE METER

- 20-LED bar graph indicates OK, WARNING or DAMP levels
- Specifically designed for the building professional
- 5 scales - concrete, plaster, reference & 2 timber
- Interchangeable 2-pin probes

The 7000 is a compact, general purpose moisture meter designed specifically for building professionals and tradesmen to check the moisture content in a variety of construction materials for moisture content diagnosis.

The instrument features a 20-LED bar graph within the keypad which displays current moisture levels; green for OK, amber for WARNING or red for DAMP. The instrument incorporates a large, easy-to-read, LCD display with low battery indication. The 7000 digital meter incorporates five scales of measurement.

Scale 1 - Wood 1 (W1)	6.0 to 40.0 %
Scale 2 - Wood 2 (W2)	8.0 to 40.0 %
Scale 3 - Plaster (P1)	0.1 to 15.0 %
Scale 4 - Concrete (C1)	0.5 to 12.0 %
Scale 5 - Linear or Reference (Lin)	0 to 1000

Each unit is housed in a robust ABS case and is powered by three AAA batteries that give a minimum of 350 hours of battery life. The instrument will power-off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.

Each moisture meter comes complete with a general purpose two-pin probe, having a one metre PVC lead and BNC connector, all supplied in a handy-sized protective zip wallet and 50 spare pins (602-530). For alternative moisture probes available, see opposite page.



LED MOISTURE INDICATION BAR GRAPH:



- **Protective silicone cover**
Fitting a cover will make your instrument splashproof to IP64 and help prevent against accidental damage. Various colours are available - see page 14.



Specification 7000 moisture meter

Range	Scale 1	6.0 to 40.0 %
	Scale 2	8.0 to 40.0 %
	Scale 3	0.1 to 15.0 %
	Scale 4	0.5 to 12.0 %
	Scale 5	0 to 1000
Resolution	0.1 % or 1 (Linear Scale)	
Accuracy	±1 % moisture content	
Battery & life	3 x 1.5 volt AAA - 350 hours	
Display	12 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	130 grams	

Order code	Description
224-070	7000 moisture meter
830-222	Protective silicone cover - yellow
890-270	3-point traceable calibration cert
602-530	Spare pins - pack of 50
The 7000 moisture meter is inclusive of probe	

MOISTURE METER KIT

- Heavy-duty, designed for the construction industry
- For consistently accurate readings

This moisture meter kit is a complete solution for measuring the moisture and dampness in a variety of building materials. This kit is supplied in a robust ABS carrying case and includes a two-pin probe, two packs of pins and a protective silicone cover.

Each kit contains:

- 7000 moisture meter (224-070)
- General purpose two-pin probe (180-160)
- Heavy-duty hammer probe (180-170)
- General purpose pins - pack of 50 (602-530)
- Hammer probe pins - pack of 10 (602-537)
- Protective silicone cover - yellow (830-222)
- ABS carrying case (834-715)



Heavy-duty hammer probe (180-170)









General purpose two-pin probe (180-160)



Order code	Description
224-079	Moisture meter kit

7000 MOISTURE METER PROBES

		Order code
GENERAL PURPOSE PROBE  26 x 33 x 60 mm overall	This standard, general purpose, two-pin (12.7 mm spacing) moisture meter probe is ideal for measuring moisture in a variety of building materials. Supplied with a one metre PVC lead and BNC connector.	180-160
 Ø1.2 x 7 mm (fitted)	Spare general purpose probe pins - pack of 50	602-530
HEAVY-DUTY HAMMER PROBE  Ø40 x 290 mm overall	This probe is designed for measuring moisture in wood and similar materials. The pin's insulated shanks ensure measurements are taken at the pin tip, allowing varying of depth measurements. Supplied with a one metre PVC lead and BNC connector.	180-170
 Ø2.4 x 30 mm (fitted)	Spare hammer probe pins - pack of 10	602-537
DEEP WALL PROBE  Ø3 x 150 mm overall	This insulated deep wall probe measures moisture deep within walls, regardless of surface dampness. The insulated shanks should be inserted into pre-drilled holes. Each pair of probe assemblies is supplied with a one metre PVC lead and BNC connector.	180-180
 Ø3 x 130 mm	Spare insulated shanks - pack of 2	602-539

pH INSTRUMENTATION



pH meters measure the acidity or alkalinity of a solution. Frequently used in agriculture, food processing, laboratories and aquariums, pH meters test the quality of water, soil, food and other substances.

ETI offers a range of pH meters for different budgets and applications, from easy-to-use pocket testers to pH and temperature meters with interchangeable electrodes.

MAINTAINING YOUR PH METER

pH meters and electrodes require good maintenance and care in order to get accurate readings.

PROPER STORAGE

When not in use, your pH meter should be stored in a clean and dry environment. Fill the electrode cap with storage solution to keep it hydrated and store it upright.

AVOID CONTAMINATION

Always rinse the electrode with distilled or deionised water before and after each measurement. Use separate containers for different samples to prevent cross-contamination, and avoid touching the electrode membrane with your fingers.

GENTLE HANDLING

Handle your pH meter and electrode with care - the electrode's glass membrane is fragile and can be easily damaged. Never force the electrode into a sample; instead, gently immerse it to prevent damage.

REPLACE ELECTRODES AS NEEDED

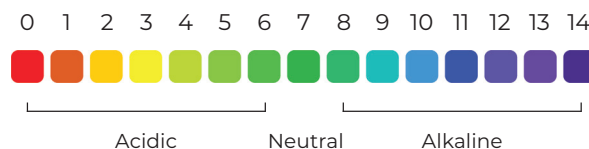
Over time, the electrode's performance can degrade. If you notice slower response times, erratic readings, or difficulty calibrating, it may be time to replace it.

BUFFER SOLUTIONS

pH buffers are solutions that have a specific pH value. All pH meters have a calibration function that will automatically recalibrate the instrument when used with a pH buffer.

A neutral solution with a pH of 7 is typically used, but some pH meters or applications will require a two-point calibration method using an additional buffer solution, usually pH 4 or 10.

This makes the instrument more accurate at the values it has been calibrated to. Therefore, if your application is typically more acidic or more alkaline, you should choose a pH buffer to reflect this.



pH PAL PLUS pH METER

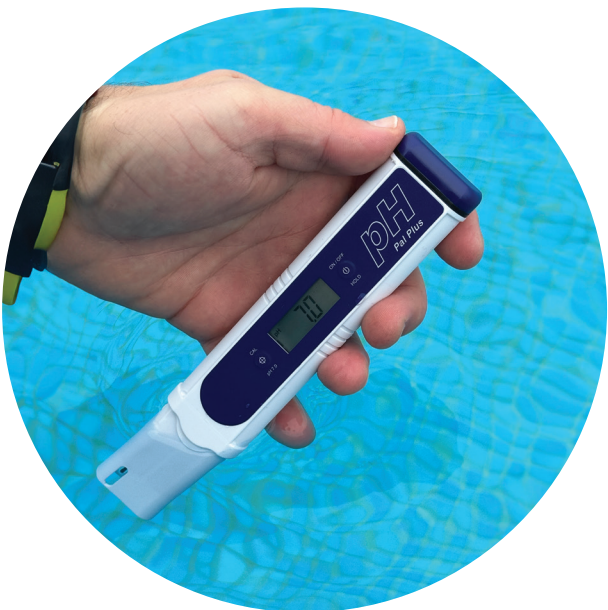
- Pocket-sized meter, ideal for everyday use
- Automatic recalibration feature
- Easy-to-read 8 mm LCD display
- Display hold function

The pH Pal Plus pH meter is a user-friendly, simple-to-use pocket-sized pH meter that incorporates an automatic recalibration feature. At the touch of a button, the instrument will automatically recalibrate itself when used in conjunction with a 7.00 pH buffer solution.

The unit is housed in a water-resistant case and features an easy-to-read 8 mm LCD display indicating pH over the range of 0 to 14 pH with a resolution of 0.1 pH and an accuracy of ± 0.2 pH.

The pH Pal Plus meter will power-off automatically after ten minutes, maximising battery life. This pH Pal is ideal for measuring the pH in food processing, hydroponics and water testing applications. The pH meter is an invaluable tool when mixing concentrates with water.

The unit is powered by four LR44 button cell batteries (supplied) and includes a protective cap. For pH buffer solutions and capsules, see page 125.



Order code	Description
813-513	pH Pal Plus pH meter
816-051	7.00 pH buffer solution - 100 ml

OPTIONAL ACCESSORY:

- This ready-made 7.00 pH buffer solution ensures the pH meter is reading correctly



Specification	pH Pal Plus pH meter
Range	0 to 14 pH
Resolution	0.1 pH
Accuracy	± 0.2 pH
Battery & life	4 x 1.5 volt LR44 button cell - 150 hours
Display	8 mm LCD
Dimensions	15 x 32 x 170 mm
Weight	70 grams

8000 pH METER

- Easy-to-use 2-point recalibration function
- ± 0.05 pH accuracy
- 2 year guarantee
- Supplied complete with a pH electrode

The 8000 pH meter features an easy-to-read, LCD display and is supplied with a budget pH electrode.

The 8000 pH meter indicates pH over the range of 0 to 14 pH with a resolution of 0.01 pH and an accuracy of ± 0.05 pH. The pH readings are manually temperature compensated over the range of 0 to 60 °C (default 25 °C).

The unit will power off automatically after ten minutes, maximising battery life.

At the touch of a button, the instrument will automatically recalibrate itself when used in conjunction with pH4 and pH7 buffer solutions. See page 125 for pH electrodes, buffer solutions and capsules.

In order to calibrate this instrument before use, pH7 buffer solution or capsules must be purchased alongside this instrument, plus either a pH4 or pH10 buffer solution or capsules depending on your application.



Budget pH electrode (823-504)
Supplied with 8000 pH meter



- These ready-made solutions are suitable for checking and cleaning pH instrumentation and pH electrodes.



Order code	Description
860-800	8000 pH meter
816-050	4.01 pH buffer solution - 100 ml
816-051	7.00 pH buffer solution - 100 ml
816-052	10.01 pH buffer solution - 100 ml
A certificate of analysis is available upon request for all buffer solutions.	

Specification	8000 pH meter
Range	0 to 14 pH
Resolution	0.01 pH
Accuracy	± 0.05 pH
Battery & life	3 x 1.5 volt AAA - 5,000 hours
Sensor type	Combination electrode
Display	Custom LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams
The 8000 pH meter is inclusive of pH electrode	

8100 pH & TEMPERATURE METER KIT

- Simultaneously displays pH & temperature
- Automatic temperature compensation (ATC)
- Complete with pH electrode and temperature probe
- 2 year guarantee

The 8100 pH meter features an easy-to-read, LCD display and is supplied as a kit which includes an 8100 pH meter, budget pH electrode, temperature probe, 4.01 and 7.00 pH buffer solutions and zip pouch for easy transportation and storage.

The 8100 pH meter indicates pH over the range of 0 to 14 pH with a resolution of 0.01 pH and temperature over the range of 0 to 99.9 °C with a resolution of 0.1 °C.

The pH readings are automatically temperature compensated over the operating range of 0 to 60 °C utilising the temperature probe supplied.

At the touch of a button, the instrument will automatically recalibrate itself when used in conjunction with two pH buffer solutions. See page 125 for pH electrodes, buffer solutions and capsules.



8100 pH METER KIT

Each kit contains:

- 8100 pH meter
- Temperature probe (170-101)
- Budget pH electrode (823-504)
- 4.01 pH buffer solution (816-050)
- 7.00 pH buffer solution (816-051)
- Zip pouch (830-080)



Budget pH electrode (823-504)

Temperature probe (170-101)

Order code	Description
860-810	8100 pH kit
170-101	Spare temperature probe
823-504	Budget pH electrode
Kit inclusive of temperature probe and electrode	

Specification	pH meter	Temperature
Range	0 to 14 pH	0 to 99.9 °C
Resolution	0.01 pH	0.1 °C
Accuracy	±0.05 pH	±0.5 °C
Battery & life	3 x 1.5 volt AAA - 5,000 hours	
Sensor type	Combination electrode / Thermistor	
Display	Custom LCD	
Dimensions	25 x 56 x 128 mm	
Weight	130 grams	
A certificate of analysis is available upon request for all buffer solutions.		



8100 PLUS pH METER

- Manual/automatic temperature compensation
- Easy-to-use 2-point recalibration function
- High accuracy ± 0.02 pH
- Waterproof IP66/67, robust design

The 8100 Plus pH meter is a three-in-one instrument that features a large easy-to-read, LCD display that indicates pH over the range of -2 to 16 pH with a resolution of 0.01 pH, mV over the range of -1000 to 1000 mV and temperature over the range of -39.9 to 149.9 °C with a resolution of 0.1 °C. The LCD display features both low battery indication and a user selectable backlight.

The pH readings are either manually or automatically temperature compensated over the range of 0 to 80 °C. To automatically compensate, it is necessary to utilise a thermistor temperature probe. Each unit incorporates an auto-power-off facility that automatically turns the instrument off after ten minutes, maximising battery life.

The 8100 Plus has an integrated rubber seal to ensure complete water resistance and helps to reduce the possibility of damage in harsh environments. At the touch of a button, the instrument will automatically recalibrate (two-point autocal) itself when used in conjunction with pH buffer solutions. For pH electrodes, buffer solutions and capsules, see overleaf.

Each unit incorporates an easy-to-use BNC connector for the pH electrode and a Lumberg screw-locking type connector for the temperature probe, allowing interchangeable thermistor probes to be used. We offer a wide range of temperature probes, see pages 86 and 87 for full details.

The 8100 Plus is available as a meter only or as a complete kit.



Order code	Description
225-085	8100 Plus pH meter*
860-820	8100 Plus kit
170-100	Temperature probe
823-501	General purpose pH electrode
830-231	Protective silicone cover - white
832-015	Stainless steel wall bracket
*The 8100 Plus is exclusive of pH electrode & probe	



8100 PLUS pH METER KIT

Each kit contains:





- 8100 Plus pH meter (225-085)
- Temperature probe (170-100)
- General purpose pH electrode (823-501)
- 4.01 pH buffer solution (816-050)
- 7.00 pH buffer solution (816-051)
- Zip pouch (830-080)



Specification	pH	mV	Temperature
Range	-2 to 16 pH	± 1000 mV	-39.9 to 149.9 °C
Resolution	0.01 pH	1 mV	0.1 °C
Accuracy	±0.02 pH	±1 mV	±0.4 °C (-9.9 to 69.9 °C)
Battery & life	3 x 1.5 volt AAA - 2,500 hours		
Sensor type	Combination electrode / Thermistor		
Display	12 mm LCD		
Dimensions	32 x 71 x 141 mm		
Weight	230 grams		
A certificate of analysis is available upon request for all buffer solutions.			

pH ELECTRODES WITH BNC CONNECTOR

pH meters are only part of the system, of equal importance is the design of the pH electrodes that are used to physically measure the product. This range of standard hand held pH electrodes are fully interchangeable via a BNC connector and are designed for use with the 8000/8100 and 8100 Plus pH meters or similar.

		Order code
BUDGET pH ELECTRODE  Ø12 x 120 mm	This plastic bodied electrode is ideal for measuring the pH in liquids and semi-solids, in a variety of industries including hydroponics, education and scientific.	823-504
GENERAL PURPOSE ELECTRODE  Ø12 x 120 mm	This plastic bodied electrode is ideal for measuring the pH in liquids and semi-solids in a wide variety of industries including food processing, agriculture and pharmaceutical.	823-501
SPEAR-SHAPED ELECTRODES  Ø6 or Ø12 x 120 mm	These glass penetration pH electrodes measure pH in semi-solid and soft materials. Ideal for use in a wide variety of industries including food processing and agriculture.	823-502 (Ø12 mm) 823-503 (Ø6 mm)
KNIFE PROBE ELECTRODE  Ø20 x 145 mm	This stainless steel, sheathed glass electrode is ideal for insertion into meat, cheese or similar. The knife probe can also be used in a variety of applications in food processing and agriculture.	823-514

Please note: maximum operating temperature range of pH electrodes is 80 °C. Each electrode is supplied with a one metre lead.

CALIBRATION SOLUTIONS & CAPSULES

pH buffer, cleaning & storage solutions

These ready-made solutions are suitable for checking and cleaning pH instrumentation and pH electrodes.

Buffer solutions are available for 4.01, 7.00 and 10.01 pH.



Order code	Description
816-050	4.01 pH buffer solution - 100 ml
816-051	7.00 pH buffer solution - 100 ml
816-052	10.01 pH buffer solution - 100 ml
816-027	7.00 pH buffer solution - 1 Ltr
816-040	Cleaning solution - 500 ml
816-041	Storage solution - 500 ml

pH buffer capsules

These DIY pH buffer capsules are available in four standard values, 4.00, 7.00, 9.00 and 10.00 pH.

Each capsule makes 100 ml of solution when mixed with de-ionised water. Supplied in packs of ten capsules.



Order code	Description
816-004	4.00 pH buffer capsules (10)
816-007	7.00 pH buffer capsules (10)
816-009	9.00 pH buffer capsules (10)
816-010	10.00 pH buffer capsules (10)

8500 CONDUCTIVITY METER

- Measures ppm, mS/cm & temperature
- Automatic temperature compensation
- Easy-to-use 1-point recalibration function
- Compact & robust design

The 8500 Conductivity Meter is a three-in-one instrument that features an easy-to-read LCD display that indicates parts per million over a range of 0 to 3500 ppm with a resolution of 1 ppm, millisiemens/cm over a range of 0.00 to 5.00 mS/cm with a resolution of 0.01 mS/cm, and temperature over the range of 0 to 50 °C with a resolution of 0.1 °C.

Both the ppm and mS/cm readings are automatically temperature compensated over the operating range of 0 to 50 °C, utilising the temperature sensor in the probe.

Each unit is housed in a robust ABS case and powered by three AAA batteries that give a minimum of 5,000 hours of battery life.

The unit will power-off automatically after ten minutes, maximising battery life.

At the touch of a button, the instrument will recalibrate itself when used in conjunction with 816-071 calibration solution.



- **816-071 Calibration Solution**
To maintain accurate readings, use this calibration solution in conjunction with your Conductivity Meter.



Order code	Description
225-528	8500 Conductivity meter
816-071	Calibration solution - 100ml
830-231	Protective silicone cover - white
830-080	Zip pouch
Certificate of analysis is available upon request	

Specification	mS/cm	ppm	Temperature
Range	0.00 to 5.00 mS/cm	0 to 3500 ppm	0.0 to 50.0 °C
Resolution	0.01 mS/cm	1 ppm	0.1 °C
Accuracy	± 2% F.S mS/cm	± 2% F.S ppm	± 0.5 °C
Battery	3 x 1.5 volt AAA		
Battery life	5,000 hours (normal use)		
EC Calibration	Manual, 1 point		
Display	Custom LCD		
Dimensions	25 x 56 x 128 mm		
Weight	130 grams		



PRESSURE & AIR FLOW METERS

ETI's range of pressure meters is designed for measuring non-corrosive gauge or differential air or gas pressure in a wide range of industries.

APPLICATIONS

- Flue draught measurement
- Gas pressure in heating appliances
- Air conditioning ducts
- Monitoring of filter differential pressure
- Velocity measurement with a pitot tube

ABSOLUTE, GAUGE OR DIFFERENTIAL

To get a correct and accurate pressure measurement, first identify whether you need to measure the absolute, gauge or differential pressure.

ABSOLUTE PRESSURE

In a perfect vacuum, zero is the complete absence of pressure. This is referred to as absolute zero pressure. Absolute pressure is the pressure being measured from absolute zero pressure. It is most commonly used for meteorological applications like weather stations.

GAUGE PRESSURE

Atmospheric pressure is the pressure caused by the earth's atmosphere - it's commonly affected by altitude, wind velocity, and temperature. Most pressure gauges read zero at atmospheric pressure. Gauge pressure is the pressure being measured from atmospheric pressure. It is often used to measure car tyres, water levels, chamber pressure and hydraulic applications.

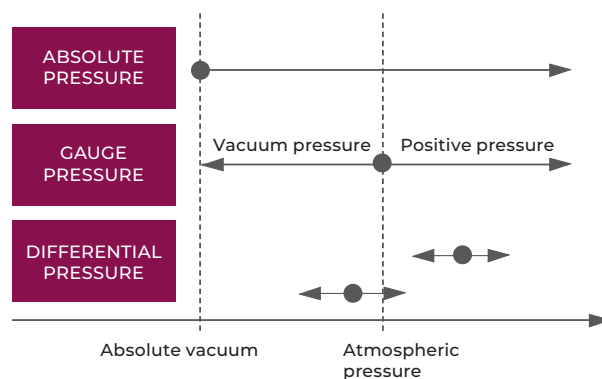
DIFFERENTIAL PRESSURE

Differential pressure is the difference between two different pressure measurements. It is commonly used for HVAC applications and filter monitoring.

MANOMETERS AND PRESSURE METERS

Pressure is usually measured using manometers and pressure meters. Manometers are used to measure gas pressure or low atmospheric pressure, while pressure meters measure high-pressure, non-corrosive air or gas.

Our range of u-gauge manometers and pressure meters display the differential pressure and feature 11 selectable units of measurement, including psi and mbar.



9202 MANOMETER

- Robust water-resistant case offering IP65 protection
- Zeroing functionality
- 11 selectable units of measurement
- Automatic temperature compensation

The 9202 digital manometer allows the user to measure positive and negative differential pressure over the range of -137.9 to 137.9 mbar with a resolution of 0.1 mbar and features over pressure protection to at least twice the measuring capacity.

These easy-to-use manometers are ideal for plumbers and gas engineers to measure domestic gas pressures and low pressure, non-corrosive air or gases in HVAC applications. The units can be used to measure air pressure in ductwork or pressure drops across filters to determine performance.

The 9202 manometer features a custom LCD display with P1, P2, diff, hold, open circuit, low battery indication and a user selectable backlight. The unit incorporates an auto-power-off facility that automatically turns the instrument off after approximately 25 minutes, maximising battery life. The instrument automatically compensates for changes in temperature.

Each unit is housed in a durable, ABS case that has an integrated rubber seal to ensure complete water tightness and help reduce the possibility of damage in harsh environments. Supplied complete with batteries, operation manual and two 500 mm long x 6 mm ID connection hoses.

OPTIONAL ACCESSORIES:

- Protective silicone cover - black c/w foot stand and magnet for mounting on pipes, metallic surfaces etc. (830-258)
- Stainless steel wall bracket (832-015) screws not supplied - see page 41 for details



Specification	9202 manometer	
	Range	Resolution
psi	±2	0.01
inH ₂ O	±55.36	0.01
mbar	±137.9	0.1
kPa	±13.79	0.01
inHg	±4.07	0.001
mmHg	±103.4	0.1
ozin ₂	±32.00	0.01
ftH ₂ O	±4.613	0.001
cmH ₂ O	±140.6	0.1
kgcm ₂	±0.1406	0.001
bar	±0.1379	0.001
Accuracy	±0.5 %FS or better (25 °C)	
Repeatability	±0.2 % (Max. 0.5 %FS)	
Battery	3 x 1.5 volt AAA	
Battery life	100 hours	
Display	Custom LCD	
Dimensions	32 x 71 x 141 mm	
Weight	185 grams	

Order code Description

825-902	9202 manometer
825-998	Connection hoses 500 mm x 6 mm ID (2)
830-258	Protective silicone cover - black
832-015	S/steel wall bracket
890-280	3-point traceable calibration certificate*

*unit of measure mbar

9200 SERIES PRESSURE METERS

- Robust, water-resistant case offering IP65 protection
- 11 selectable units of measurement
- 4 models available ± 5 to ± 75 psi
- Automatic temperature compensation

This range of four industrial differential pressure meters offer high accuracy, performance and repeatability. The pressure meters allow the user to indicate the positive and negative differential pressure over the range of ± 5 , ± 15 , ± 30 or ± 75 psi.

All instruments feature over pressure protection to at least twice the measuring capacity. These easy-to-use pressure meters are ideal for measuring non-corrosive gauge or differential air/gas pressure in a wide variety of industries.

Each pressure meter features a custom LCD display with P1, P2, diff, hold, open circuit, low battery indication and a user selectable backlight. The unit incorporates an auto-power-off facility that automatically turns the instrument off after approximately 25 minutes, maximising battery life. The instrument automatically compensates for changes in temperature

Each unit is housed in a durable, ABS case that has an integrated rubber seal to ensure complete water tightness and help reduce the possibility of damage in harsh environments. Supplied complete with batteries, operation manual and two 300 mm long x 4 mm ID connection hoses.*



Specification	9205 meter		9215 meter		9230 meter		9275 meter	
	Range	Resolution	Range	Resolution	Range	Resolution	Range	Resolution
psi	±5	0.01	±15	0.01	±30	0.01	±75	0.1
inH2O	±138.4	0.01	±415.2	0.1	±830.4	0.1	±2076	1
mbar	±344.7	0.1	±1034.2	1	±2068.4	1	±5171	1
kPa	±34.47	0.01	±103.4	0.1	±206.8	0.1	±517.1	0.1
inHg	±10.18	0.001	±30.54	0.01	±61.08	0.01	±152.7	0.1
mmHg	±258.5	0.1	±775.7	0.1	±1551.4	1	±3879	1
ozin2	±80.0	0.01	±240.0	0.1	±480.0	0.1	±1200	1
ftH2O	±11.53	0.001	±34.60	0.01	±69.20	0.01	±173.0	0.1
cmH2O	±351.5	0.1	±1055	1	±2109	1	±5273	1
kgcm2	±0.351	0.001	±1.055	0.001	±2.109	0.001	±5.273	0.001
bar	±0.344	0.001	±1.034	0.001	±2.068	0.001	±5.171	0.001
Accuracy	±0.5 %FS or better at 25 °C				±1 %FS or better at 25 °C			
Repeatability	±0.2 % (Max. 0.5 %FS)							
Battery & life	3 x 1.5 volt AAA - 100 hours							
Display	Custom LCD							
Dimensions	32 x 71 x 141 mm							
Weight	185 grams							

Order code	Description
825-905	9205 ± 5 psi
825-915	9215 ± 15 psi
825-930	9230 ± 30 psi
825-975	9275 ± 75 psi
825-990	Connection hoses 300 mm x 4 mm ID (2)
830-258	Protective silicone cover - black
832-015	S/steel wall bracket
890-280	3-point traceable calibration certificate**
**unit of measure mbar	

* Excluding 825-905 which is supplied with two 500 mm long x 6 mm ID connection hoses (see page 128).

- **Connection hoses included**
All units are supplied with high pressure, barbed connectors



9035 ANEMOMETER

- Displays the air velocity and temperature simultaneously
- Five scales m/s, km/h, ft/min, knots and mph
- Max/Min and average reading functions
- Simple and easy to operate

The 9035 hand held combined anemometer and thermometer is a general purpose vane air speed meter that simultaneously displays air flow/velocity measurement and temperature over the range 0.4 to 30 metres per second or 0.9 mph to 67 mph and -10 to 50 °C.

The instrument displays the air flow/velocity in five different modes/scales, metres per second (m/s), kilometres per hour (km/h), feet per minute (ft/min), knots and miles per hour (mph). The temperature can be displayed over the range -10 to 50 °C in either °C or °F with a resolution of 0.1 °C/°F.

The unit incorporates an auto-power-off facility, backlit display, average reading (last 10) and max/min functions. The 9035 Anemometer is housed in a robust ABS case and features an easy-to-read custom LCD.



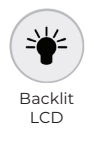
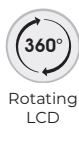
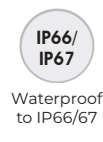
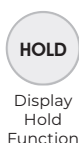
Offering an effective way of measuring air velocity, volume and temperature in many industries. Anemometers are most commonly used for testing the efficiency of ventilation, heating and air-conditioning systems, but are regularly used in controlled laboratory testing applications such as wind tunnels. Further uses include measuring outdoor wind conditions as part of health and safety checks as well as in many manufacturing processes.

Order code	Description
825-835	9035 Anemometer
890-290	3-point traceable calibration certificate*
*unit of measure m/s	

Specification	9035 Anemometer
Range flow/ velocity	0.4 to 30 metres per second
Range temperature	-10 to 50 °C
Resolution	0.1 °C/°F
Scales	m/s, km/h, ft/min, knots & mph
Accuracy flow/velocity	±3 % of Full scale ±0.5
Accuracy temperature	±1.5 °C
Battery	3 x 1.5 volt AAA
Battery life	100 hours with backlight 1,000 hours without backlight
Display	Custom LCD
Dimensions	Unit only: 32 x 71 x 141 mm Vane unit: 35 x 76 x 155 mm
Weight	270 grams unit & vane

PRODUCT INDEX

PRODUCT DESCRIPTION	PAGE NO.	PRODUCT DESCRIPTION	PAGE NO.
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